Paulus Roetter—Pencil sketches (1852-1880)

Biographical sketch

Paulus Roetter, landscape artist and botanical illustrator, was born on July 4, 1806, in Nuremberg, Germany. He studied art in Dusseldorf and Munich before settling in Switzerland in 1825. In 1845, he immigrated to St. Louis where he became an Evangelical pastor and school teacher. Shortly after his arrival in St. Louis, Roetter became associated with George Engelmann, a physician and botanist who was the chief scientific advisor to Henry Shaw on the development of the Missouri Botanical Garden. Roetter created botanical sketches for Engelmann's reports on cactus and pines and made detailed drawings of specimens found on government expeditions and surveys conducted west of the Mississippi River. In recognition of his fine work, Engelmann named a new species of Cactus, C. Roetteri, and wrote, "I take great pleasure to acknowledge my indebtedness to the modest and faithful artist, Mr. Paulus Roetter who has adorned this memoir by his skillful pencil, by naming this species after him" (*Cactaceae of the Boundary*, pg. 33).In 1867, Roetter moved to Cambridge, Massachusetts to work with biologist Louis Agassiz at Harvard University and was the botanical drawing instructor at Agassiz's Anderson School of Natural History on Penikese Island. Roetter returned to St. Louis in 1884 and died on November 11, 1894.

Scope and Content Notes

This collection consists primarily of preliminary pencil sketches for lithographs which later appeared in the following three publications by George Engelmann: *Cactaceae of the Boundary*, v. 2, pt.1 of *Report on the United States and Mexican Boundary Survey, under the order of Lieut. Col. W. H. Emory*, 1859; *Report on the botany of the expedition*. No. 3 *Description of the Cactaceae*, v. IV of *Explorations and surveys for a railroad from the Mississippi River to the Pacific Ocean. Route near the thirty-fifth parallel, explored by Lieutenant A.W. Whipple*, 1856; *and Revision of the Genus Pinus and Description of Pinus Elliottii*, v.4, no.1 of *Transactions of the Academy of Science of St. Louis,* February 1880.

The sketches were purchased from Roetter's daughter, Mrs. S. Mueller, in 1895. According to William Trelease's Seventh Annual Report in 1896, the sketches were valued at $100.00. (Seventh Annual Report of the Director, Wm. Trelease, *Missouri Botanical Garden Annual Report*, 1896). They were subsequently placed in a bound book of blank pages and stored with Engelmann's manuscripts. The sketches were later removed for preservation purposes, and in 2011 were placed in individual Mylar sleeves.

The 122 items in this box are organized into the following series: Folder 1 Mammillaria; 2 Echinocactus; 3 Cereus; 4 Opuntia; 5 Miscellaneous cactus; 6 Lotus flowers and unidentified plants; 7 Pinus elliottii.

Lynne Casey, March 2011

Cactus

"All the figures are of natural size unless the contrary is expressly stated. They were drawn with the greatest accuracy, partly from living and in part from dried specimens, by Mr. Paulus Roetter of St. Louis, under the personal superintendence of Dr. Engelmann." Pgs. 57-58, *Cactaceae of Whipple's Expedition*, 1856.

Mammillaria

79-0007-1 M. calcarata
79-0007-2 M. calcarata
79-0007-3 M. calcarata; signed
79-0007-4 M. fissurata
79-0007-5 M. grahami
79-0007-6 M. hemisphaerica & C. precumbens
79-0007-7 M. heyderi var. applanta, Plate 9 *Cactaceae of the Mexican Boundary*
79-0007-8 M. lasiacantha
79-0007-9 M. micromeris, Plate II *Cactaceae of Whipple's Expedition*; signed lithograph
79-0007-10 M. micromeris, Plate II *Cactaceae of Whipple's Expedition*
79-0007-11 M. nattallii
79-0007-12 M. nattallii
79-0007-13 M. nattallii
79-0007-14 M. nattallii
79-0007-15 M. nattallii
79-0007-16 M. pusilla
79-0007-17 M. pusilla
79-0007-18 M. pusilla
79-0007-19 M. pusilla var. texana, Plate 5 *Cactaceae of the Mexican Boundary*
79-0007-20 M. radiosa; rough sketch of Op. macrorhiza? on verso
79-0007-21 M. radiosa var. neo-mexicana, Plate 13 *Cactaceae of the Mexican Boundary*
79-0007-22 M. similis; initialed
79-0007-23 M. similis
79-0007-24 M. tuberculosa, Plate 12 *Cactaceae of the Mexican Boundary*
79-0007-25 M. vivipara
79-0007-26 M. wrightii, Plate 8 *Cactaceae of the Mexican Boundary*

Echinocactus

79-0007-27 E emory, Plate 28 *Cactaceae of the Mexican Boundary*

79-0007-28 E. lecontei, Plate 27 *Cactaceae of the Mexican Boundary*

79-0007-29 E. lecontei, Plate II *Cactaceae of Whipple's Expedition;* signed lithograph

79-0007-30 E. polyaneistrus; sketch of same on verso

79-0007-31 E. polyaneistrus, Plate II *Cactaceae of Whipple's Expedition;* sketch of same on verso

79-0007-32 E. polycephalus, Plate III *Cactaceae of Whipple's Expedition;* part lithograph; sketch of cabin & mountains on verso

79-0007-33 E. setispinus, Plate 20 *Cactaceae of the Mexican Boundary;* signed and matted

79-0007-34 E. texensis, Plate 33 *Cactaceae of the Mexican Boundary*

Cereus

79-0007-35 C. berlandiere, Plate 58 *Cactaceae of the Mexican Boundary*; sketch on verso; signed

79-0007-36 C. caespitosus, Plate 43 *Cactaceae of the Mexican Boundary*; initialed

79-0007-37 C. caespitosus

79-0007-38 C. engelmanni

79-0007-39 C. fendleri

79-0007-39.5 C. fendleri

79-0007-40 C. giganteus, Plate 62 *Cactaceae of the Mexican Boundary*

79-0007-41 C. giganteus, Plate 61 *Cactaceae of the Mexican Boundary*

79-0007-42 C. giganteus

79-0007-43 C. greggii, Plate 63 *Cactaceae of the Mexican Boundary*

79-0007-44 C. greggii b transmontanus, Plate 65 *Cactaceae of the Mexican Boundary*

79-0007-45 C. longisetus, Plate 45 *Cactaceae of the Mexican Boundary*

79-0007-46 C. pecten-aboriginum & E. texensis

79-0007-47 C. procumbens, Plate 59 *Cactaceae of the Mexican Boundary;* sketch on verso

79-0007-48 C. procumbens, Plate 59 *Cactaceae of the Mexican Boundary* ; sketch of same on verso

79-0007-49 C. stramineus, Plate 48 *Cactaceae of the Mexican Boundary*

79-0007-50 C. stramineus

79-0007-51 C. stramineus, Plate 48 *Cactaceae of the Mexican Boundary*

79-0007-52 C. tuberosus ; initialed

79-0007-53 C. tuberosus

79-0007-54 C. tuberosus

79-0007-55 C. viridiflorus, Plate 36 *Cactaceae of the Mexican Boundary*

79-0007-56 C. viridiflorus, Plate 36 *Cactaceae of the Mexican Boundary*

Opuntia

79-0007-57 Opuntia

79-0007-58 Opuntia (ciasticusis?); signed

79-0007-59 Op. bigelovii E, Plate XIX *Cactaceae of Whipple's Expedition*

79-0007-60 Op. acanthocarpa, Plate XVIII *Cactaceae of Whipple's Expedition*

79-0007-61 Op. acanthocarpa, Plate XVIII *Cactaceae of Whipple's Expedition*

79-0007-62 Op. clavata, Plate XXII *Cactaceae of Whipple's Expedition*

79-0007-63 Op. clavata, Plate XXII *Cactaceae of Whipple's Expedition*

79-0007-64 Op. clavata & C. viridiflora in upper right corner and verso

79-0007-65 Op. emory

79-0007-66 Op. emory

79-0007-67 Op. engelmanni, Plates VIII & IX *Cactaceae of Whipple's Expedition*

79-0007-68 Op. filipendula, Plate 68 *Cactaceae of the Mexican Boundary;* additional sketches on verso

79-0007-69 Op. filipendula

79-0007-70 Op. filipendula Plate 68 *Cactaceae of the Mexican Boundary*

79-0007-71 Op. macrorhiza

79-0007-72 Op. macrorhiza

79-0007-73 Op. macrorhiza

79-0007-74 Op. macrorhiza

79-0007-75 Op. macrorhiza, Plate 69 *Cactaceae of the Mexican Boundary*

79-0007-76 Op. macrorhiza, Plate 69 *Cactaceae of the Mexican Boundary*, & Op. basilaris on verso

79-0007-77 Op. macrorhiza, Plate 69 *Cactaceae of the Mexican Boundary*, & Op. procumben

79-0007-78 Op. missouriensis, DC var. microsperma, Plate XIV *Cactaceae of Whipple's Expedition* & M. meicantha on right side of page

79-0007-79 Op. rafinesquii

79-0007-80 Op. rafinesquii

79-0007-81 Op. rafinesquii grandiflora, Plate XI *Cactaceae of Whipple's Expedition*

79-0007-82 Op. rafinesquii

79-0007-83 Op. rafinesquii, Plate XI *Cactaceae of Whipple's Expedition* ; sketches of vases on verso

79-0007-84 Op. strigil, Plate 67 & E. Texensis (verso), Plate 23 *Cactaceae of the Mexican Boundary*

79-0007-85 Op. vulgaris

79-0007-86 Op. whipplei & Op. arborescens, Plate XVII *Cactaceae of Whipple's Expedition*

Cactus—Miscellaneous

79-0007-87 Cactus flower

79-0007-88 Cactus flower; sketch on verso

79-0007-89 Cactus flower

79-0007-90 Cactus flower

79-0007-91 Cactus flower

79-0007-92 Cactus flower

79-0007-93 Cactus flower

79-0007-94 Cactus seeds

79-0007-95 Cactus spines

79-0007-96 Cactus spines

79-0007-97 Cactus seeds; additional sketches on verso

79-0007-98 Notes and some sketches

Lotus Flowers & Unidentified Plants

79-0007-99 Unidentified plants

79-0007-100 Lotus flower; colored sketch; sketch of same on verso

79-0007-101 Lotus flower

79-0007-102 Lotus flower; light sketch on verso

Pinus Elliottii

"The plates were drawn on stone, from nature, by Mr. Paulus Roetter, late of St. Louis, who had made himself so favorably known more than twenty years ago by the beautiful Cactus plates published in the Report of the Mexican Boundary Commission, and who has since greatly added to his fame and his usefulness by his artistic work in the Zoological Institute in Cambridge." George Engelmann, page 31 of *Revision of the Genus Pinus and Description of Pinus Elliottii*, volume IV, no. 1 of *Transactions of the Academy of Science of St. Louis*, February 1880.

79-0007-103 Pinus elliottii

79-0007-104 Pinus elliottii

79-0007-105 Pinus elliottii ; sketch and notes on verso

79-0007-106 Pinus elliottii

79-0007-107 Pinus elliottii

79-0007-108 Pinus elliottii; sketch and map of area around Washington D.C.

79-0007-109 Pinus elliottii

79-0007-110 Pinus elliottii, Plate I

79-0007-111 Pinus elliottii, Plate II, no. 8

79-0007-112 Pinus elliottii, Plate II, no. 8

79-0007-113 Pinus elliottii Plate II, no. 9

79-0007-114 Pinus elliottii, Plate II, no. 10

79-0007-115 Pinus elliottii, Plate II, no. 15

79-0007-116 Pinus elliottii, Plate II, no. 16

79-0007-117 Pinus elliottii, Plate II, no., 17

79-0007-118 Pinus elliottii, Plate III, no. 21

79-0007-119 Pinus elliottii, Plate III, nos. 22 & 24

79-0007-120 Pinus elliottii, Plate III, no. 23

79-0007-121 Pinus elliottii, Plate III, no. 25

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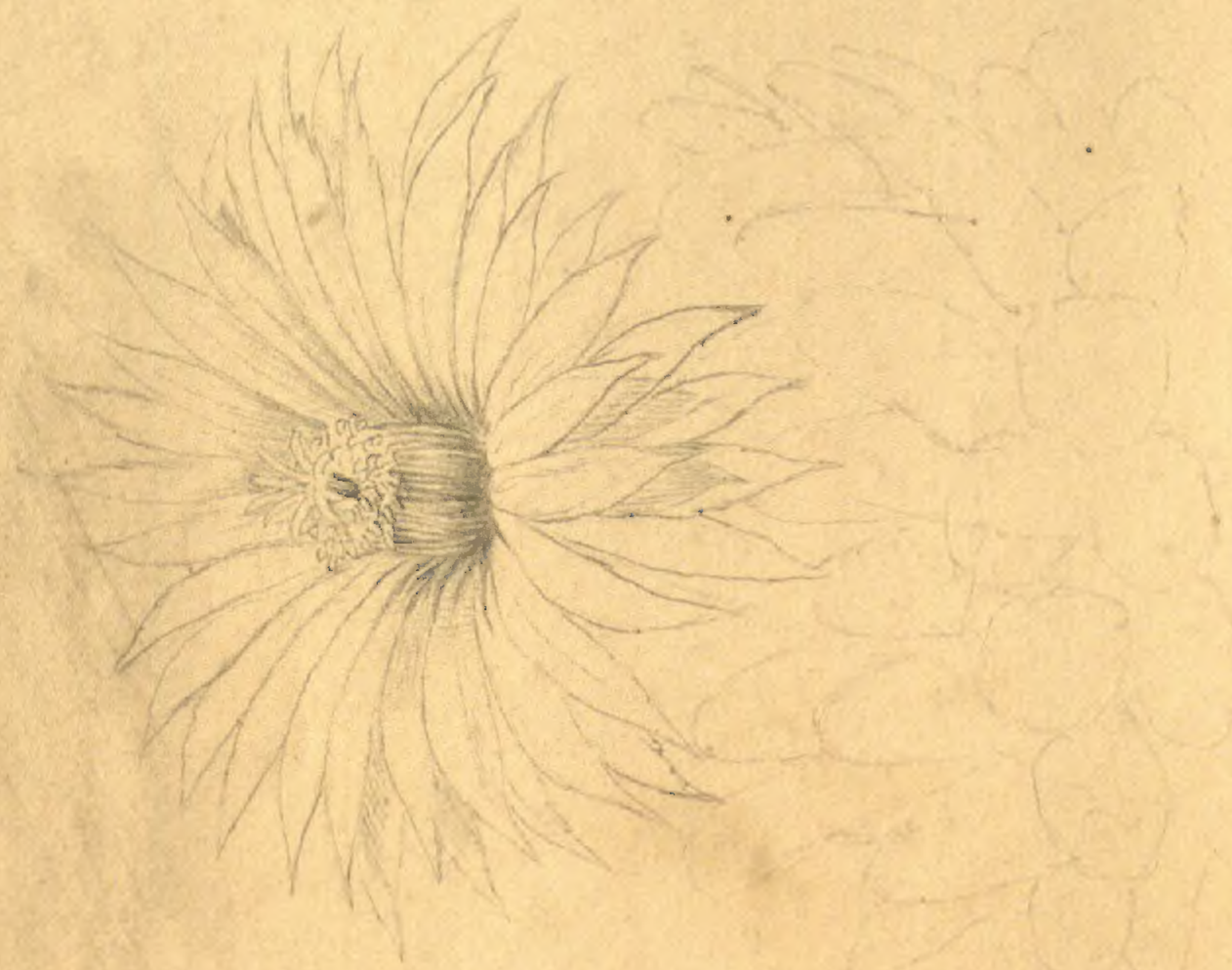

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Cereus nitidus

P. Ruetter

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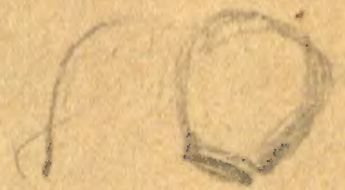

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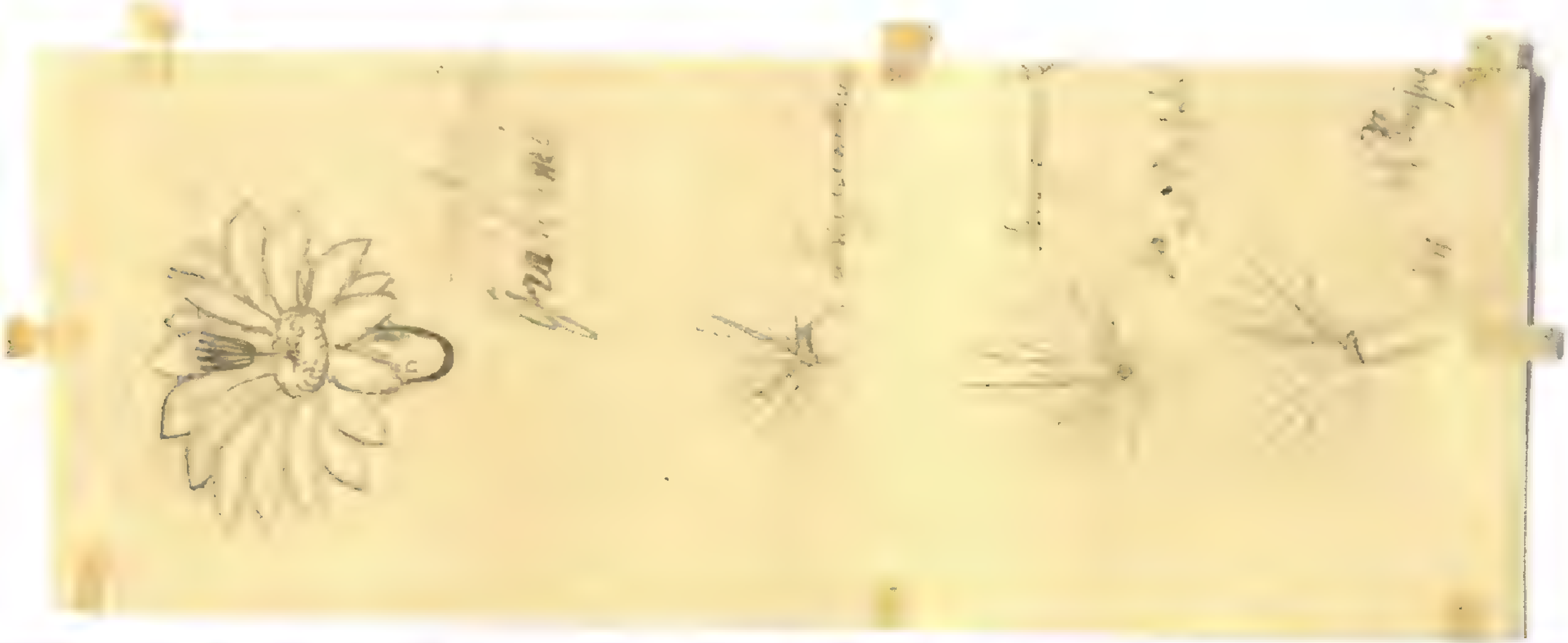

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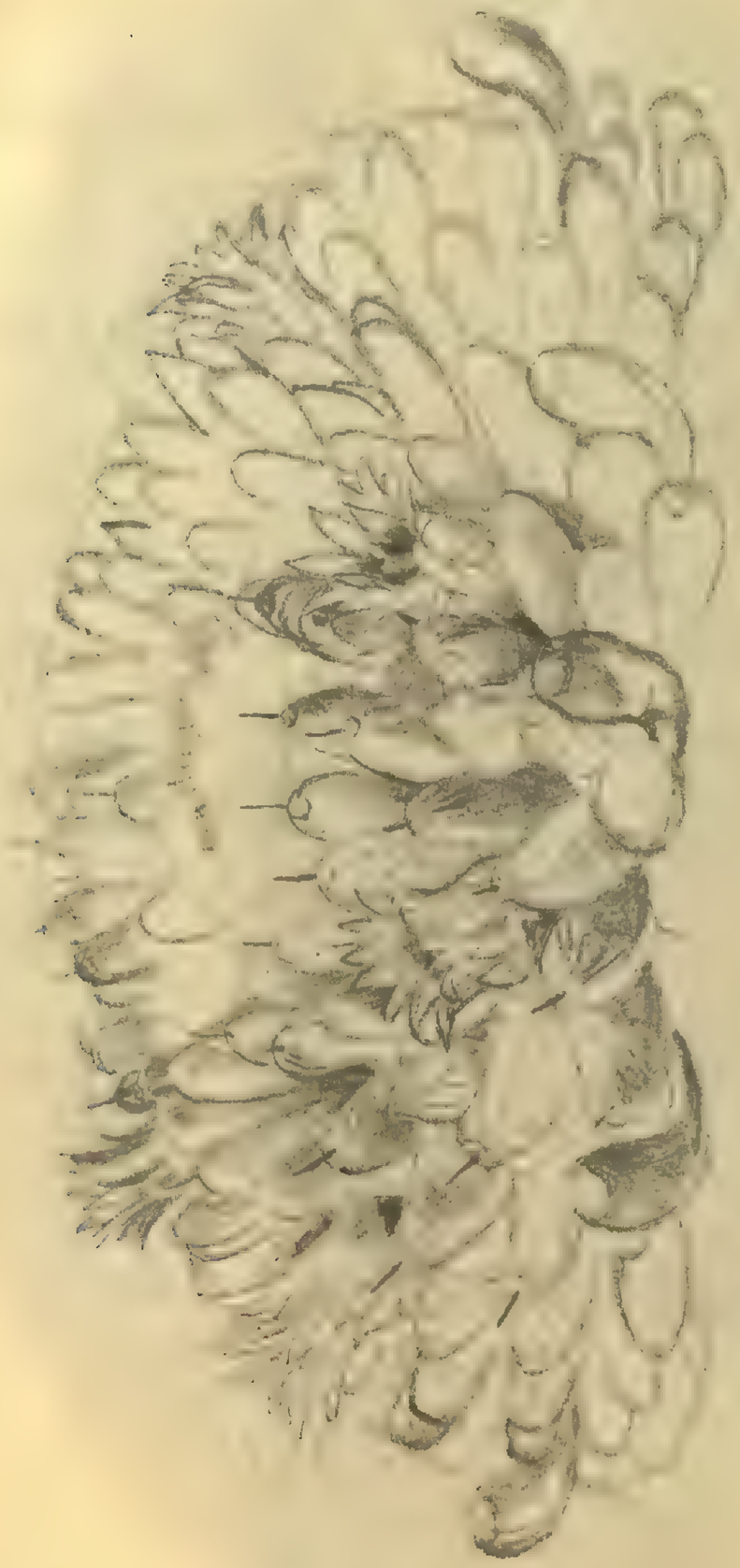

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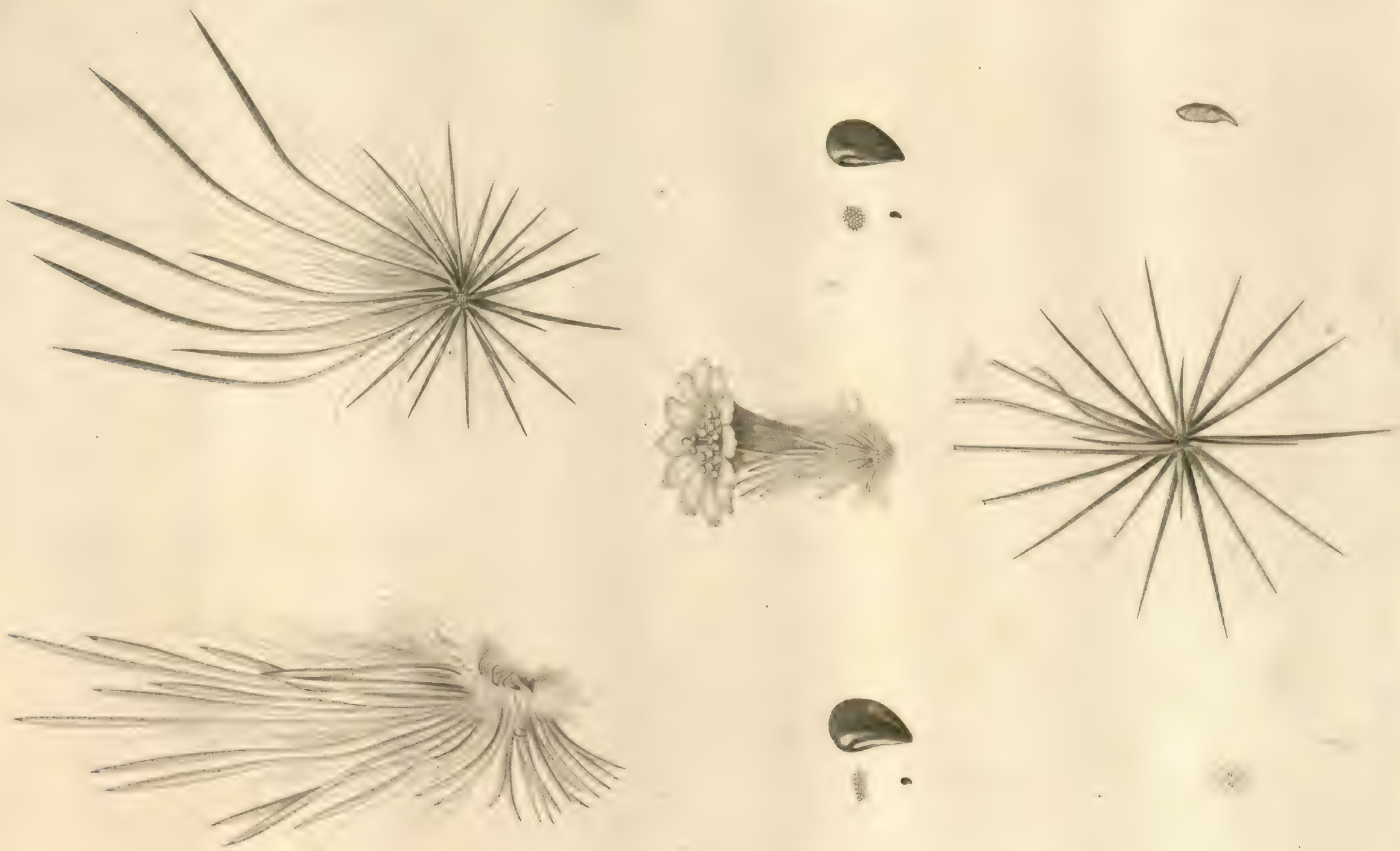

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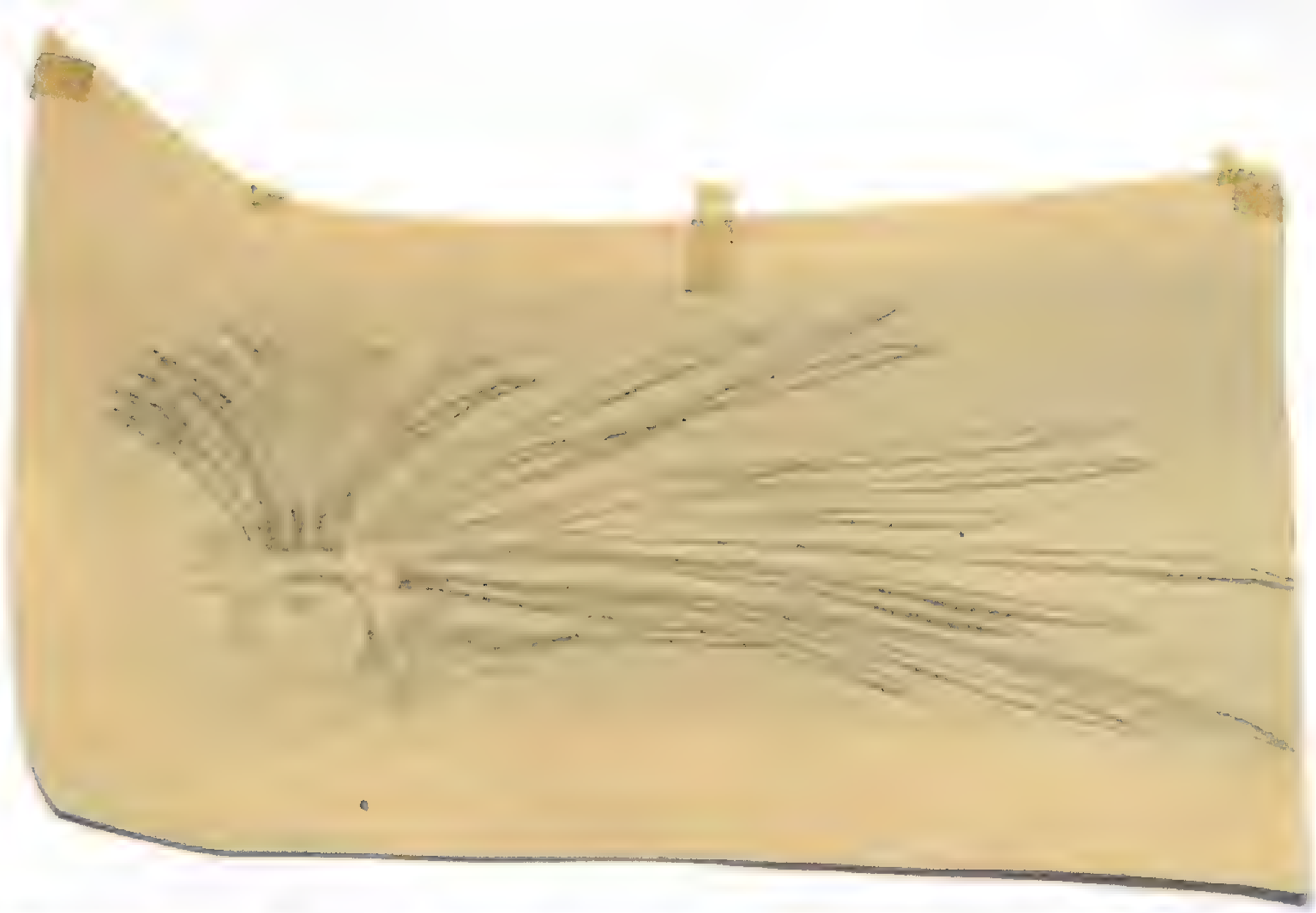

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May 20 1856

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M. radiosa d. 26 Juni 1855

Pistill: Fünfklappige Narbe ausser den Staubfäden,
Blümchen: orangegelb. 12 Staubfäden gehangt
27 Blumen: Blumenblätter linear-lanzettförmig
Kelch: fallen ab, nur 2 sehr kleine Kelchblätter vorhanden unter Lupe

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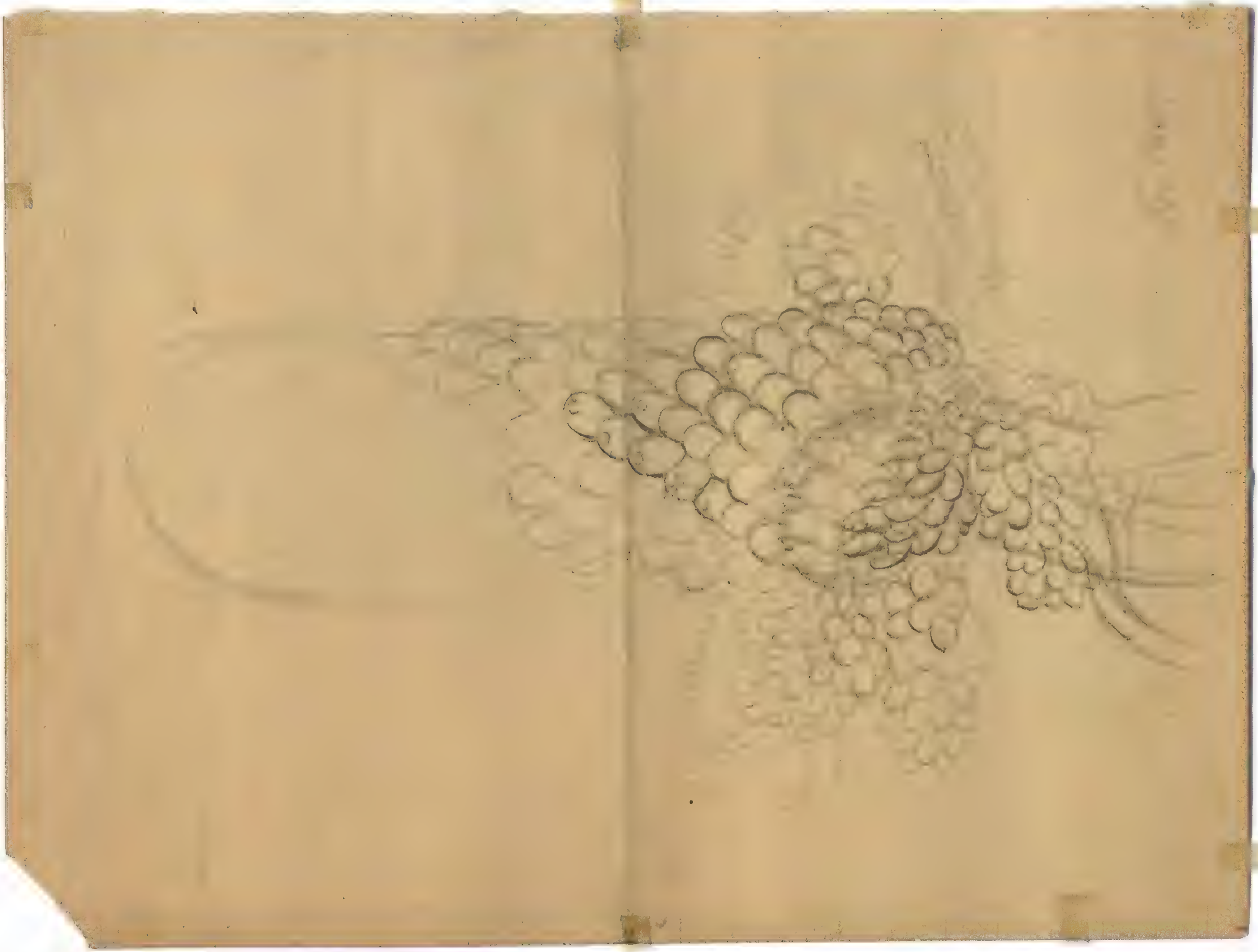

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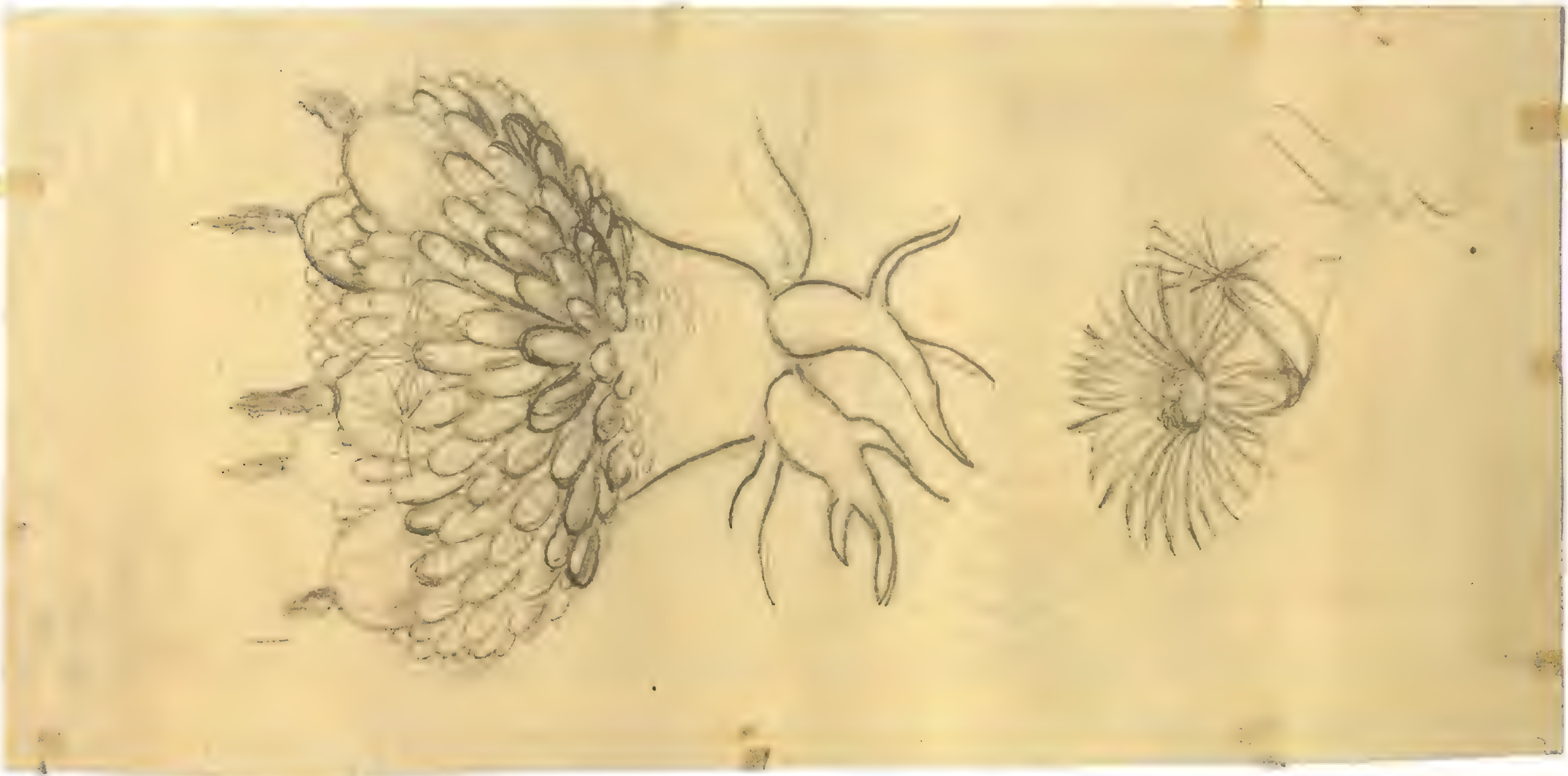

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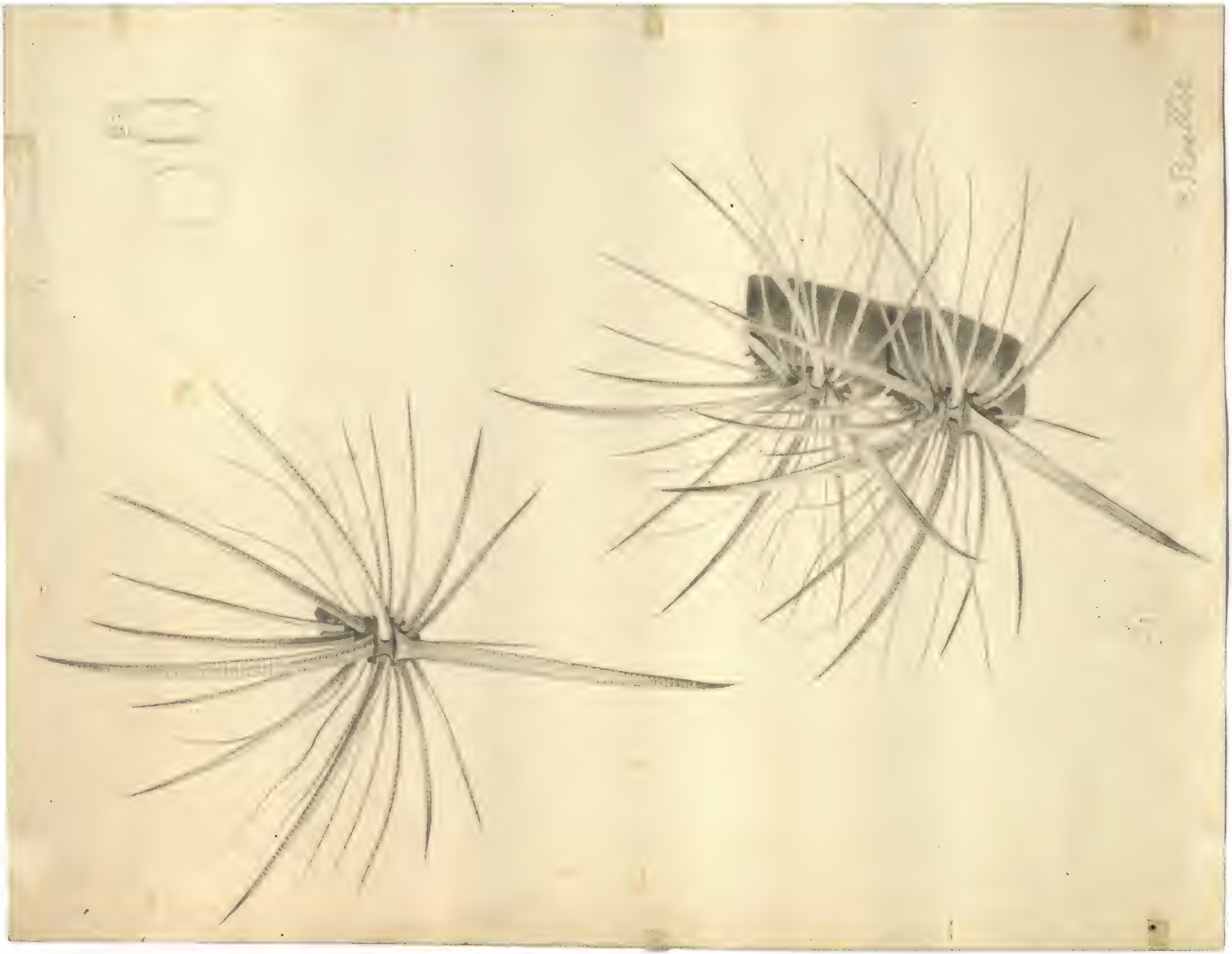

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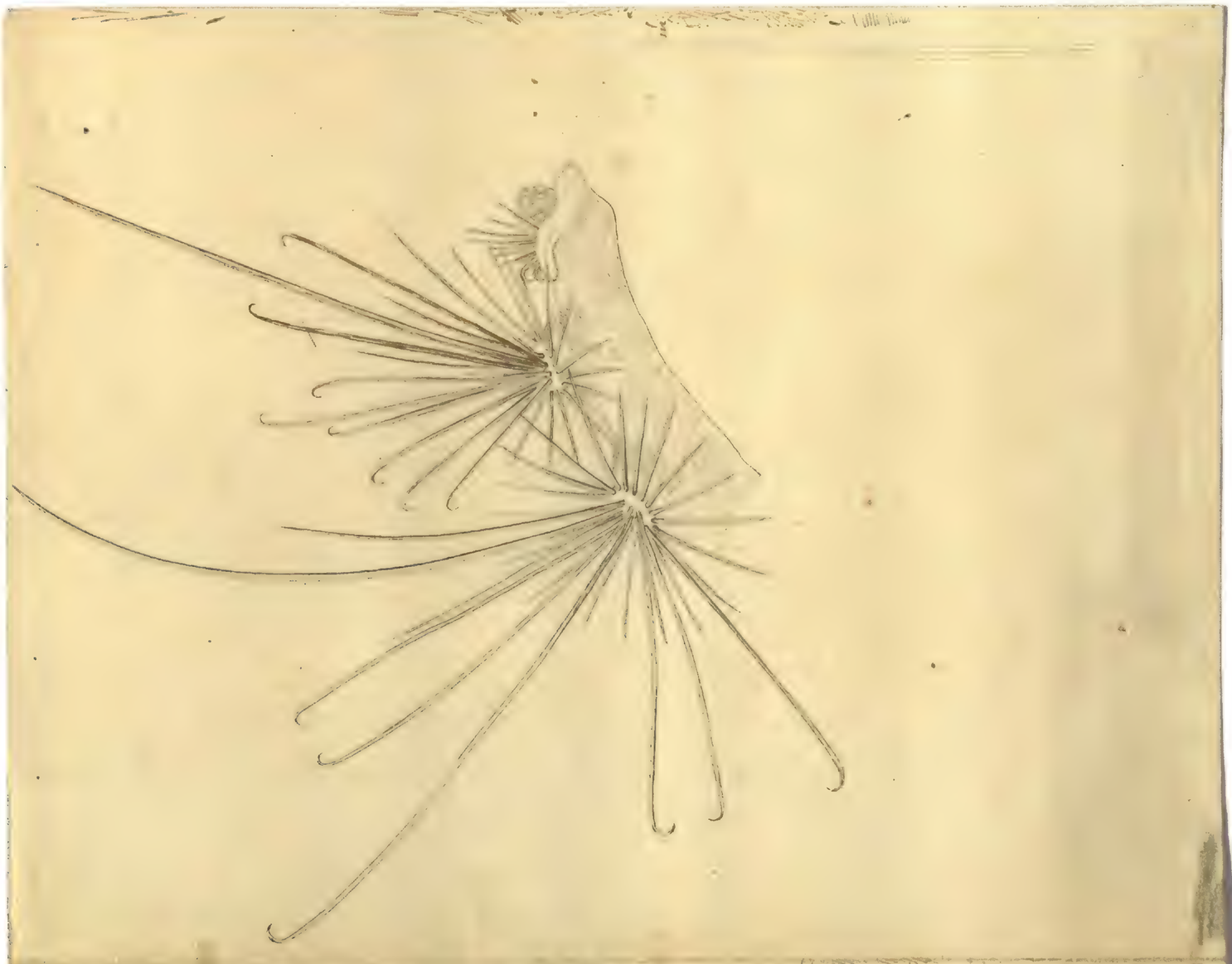

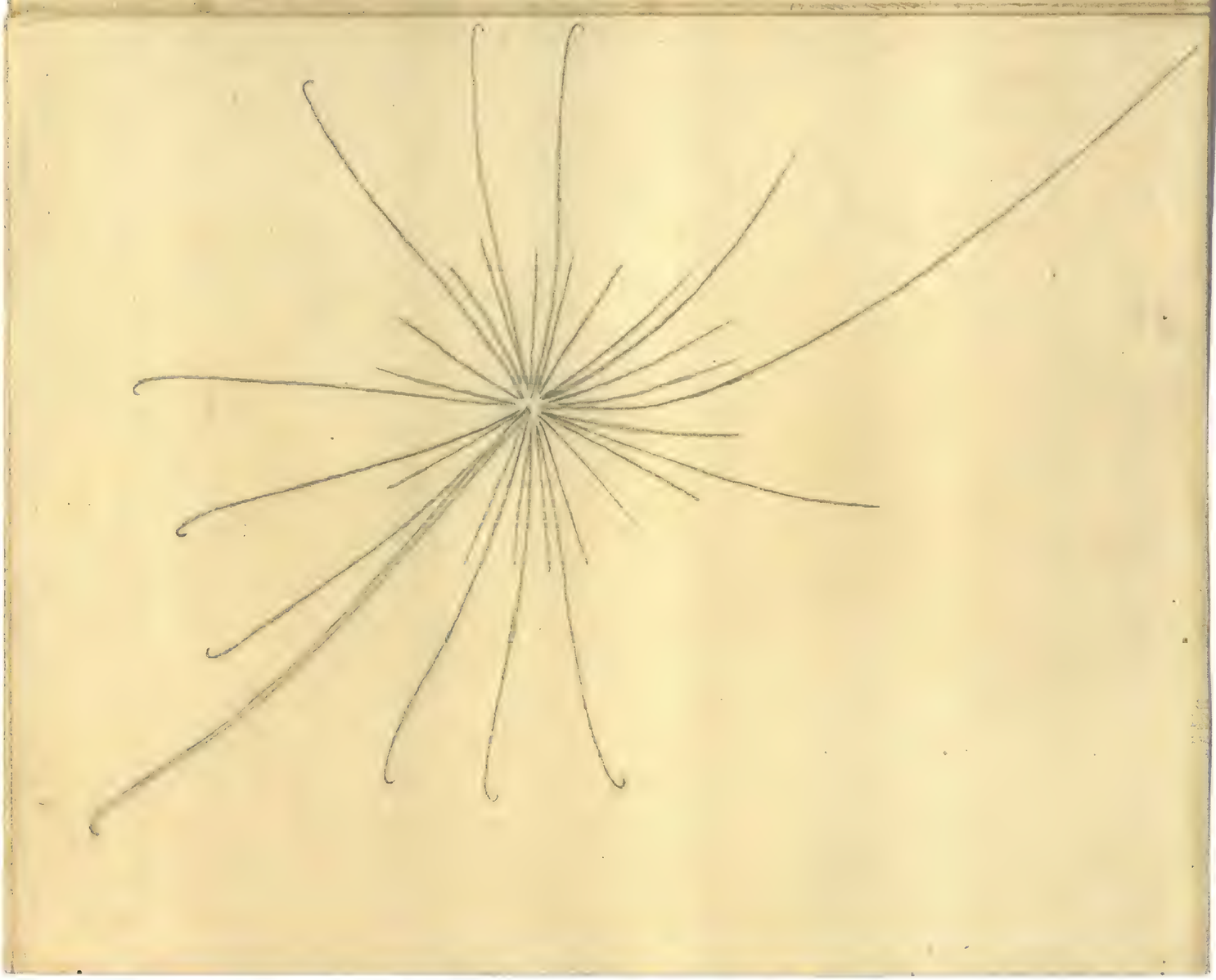

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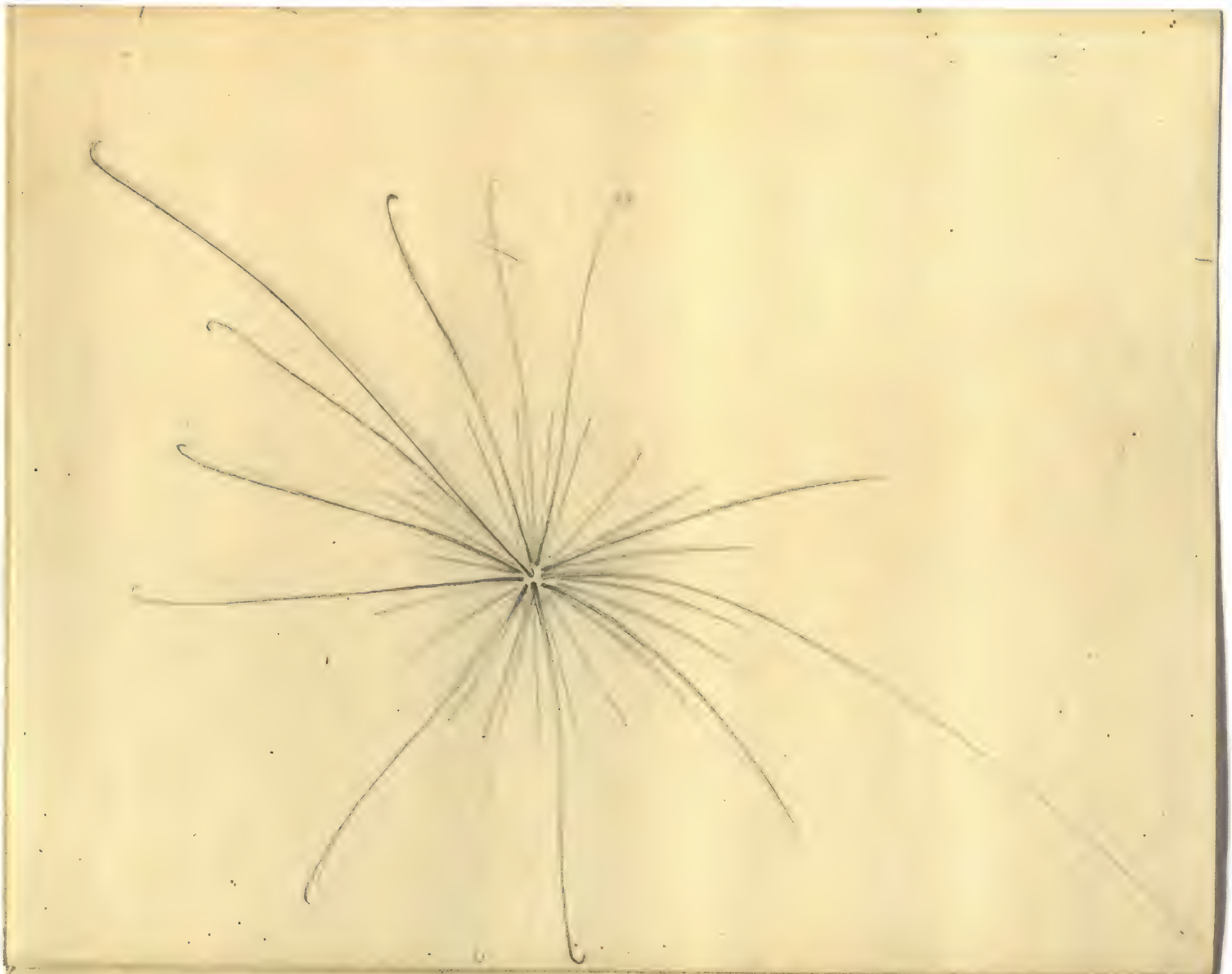

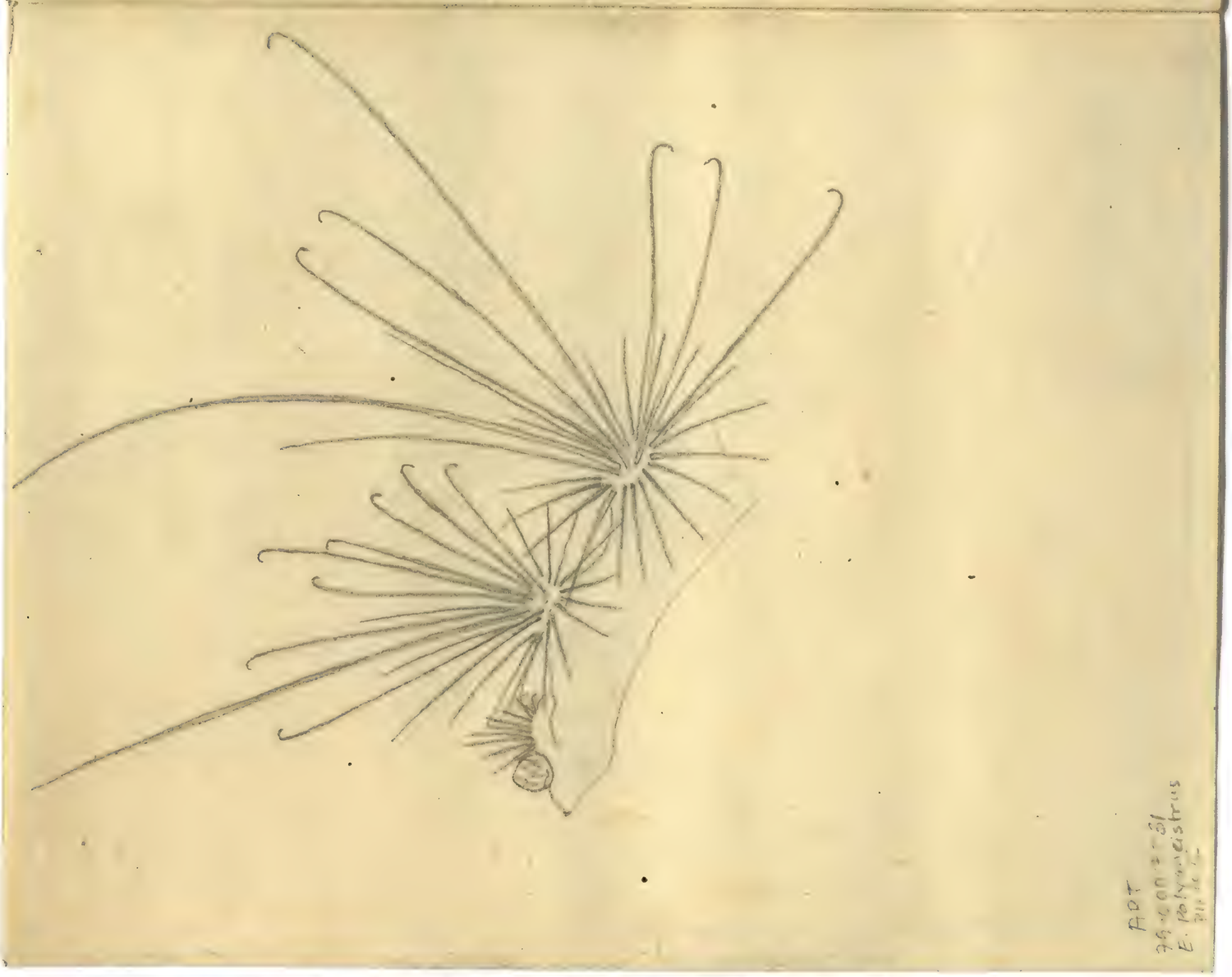

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PRE
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(C. Gaudichaud)
Plate 12

3 Juli 1859

F. Bradley

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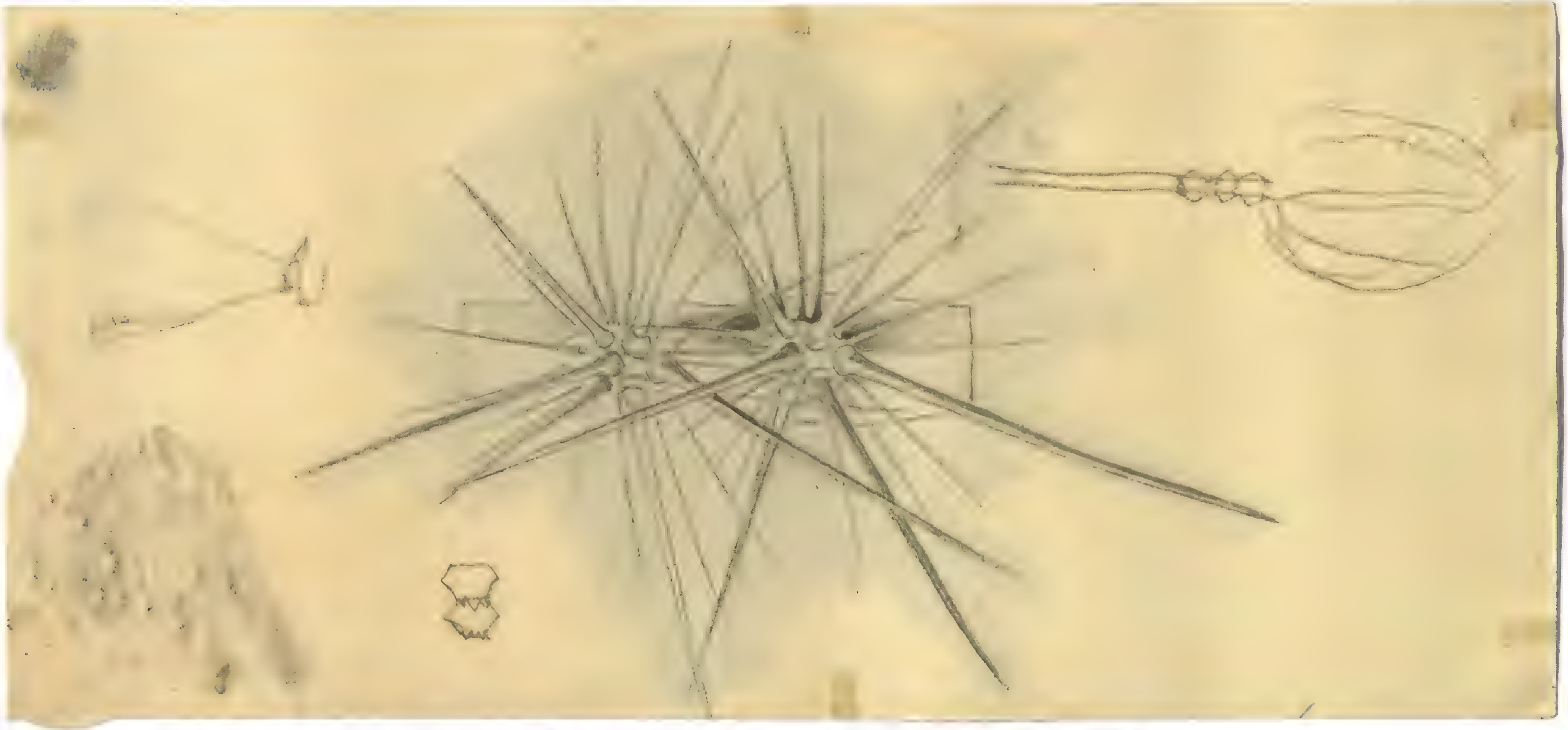

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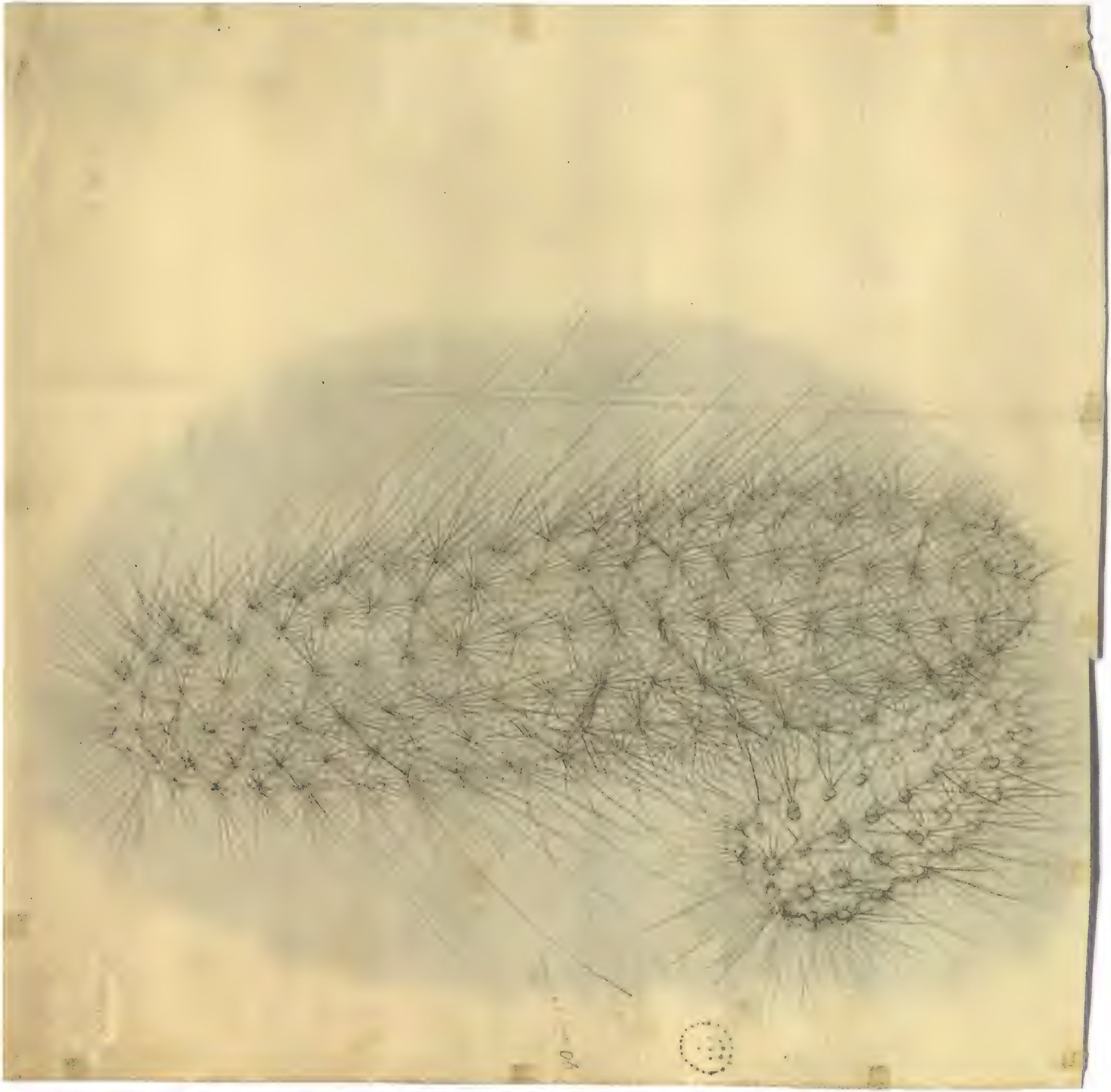

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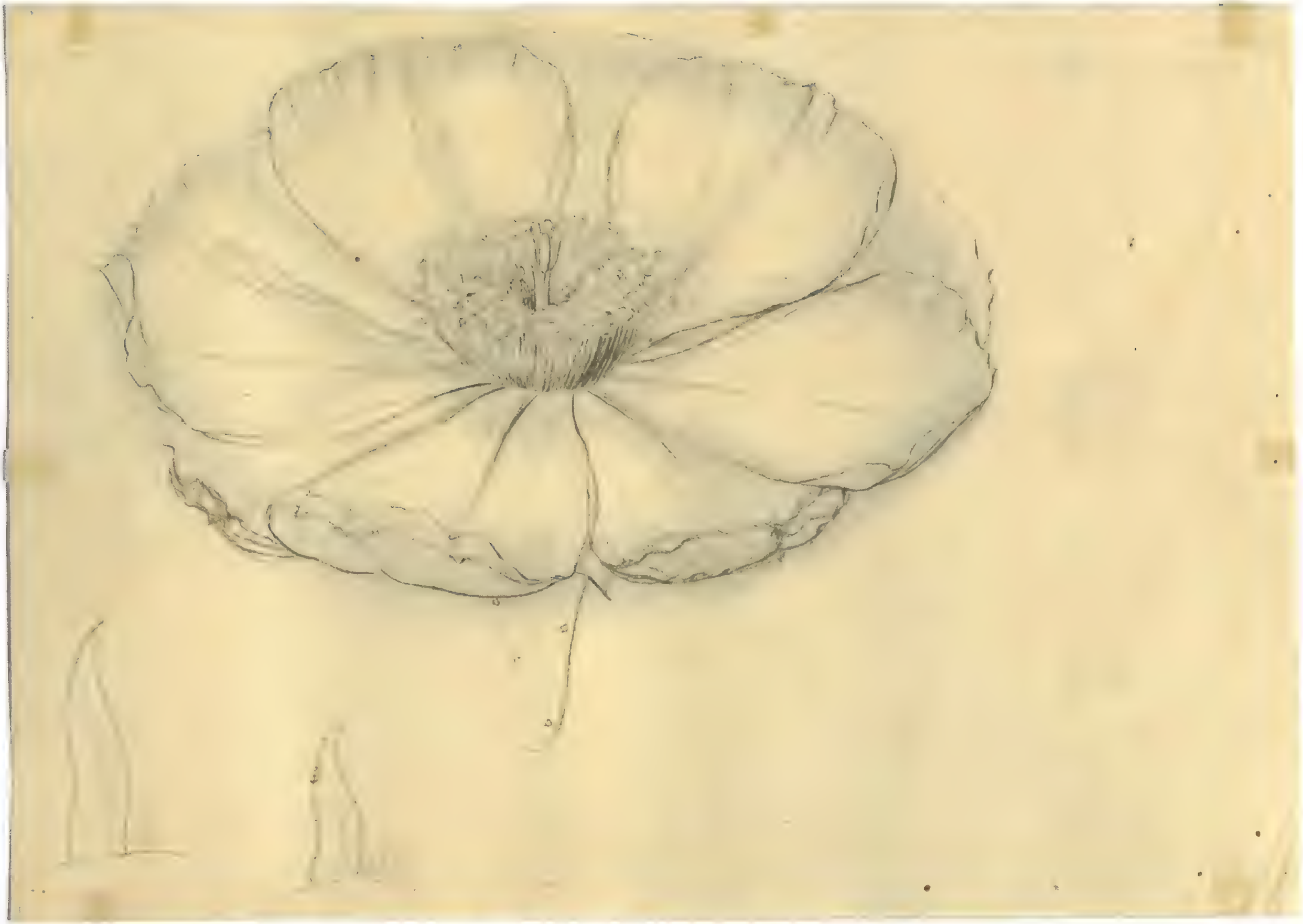

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Cerc. Stramineus
plate 48

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3 Knöllchen am
natürlichen Exemplare

C. Tuberosus

28 März 1859

1½ natürliche Größe

mit Kapsel an dem Knöllchen
ausgewachsen.

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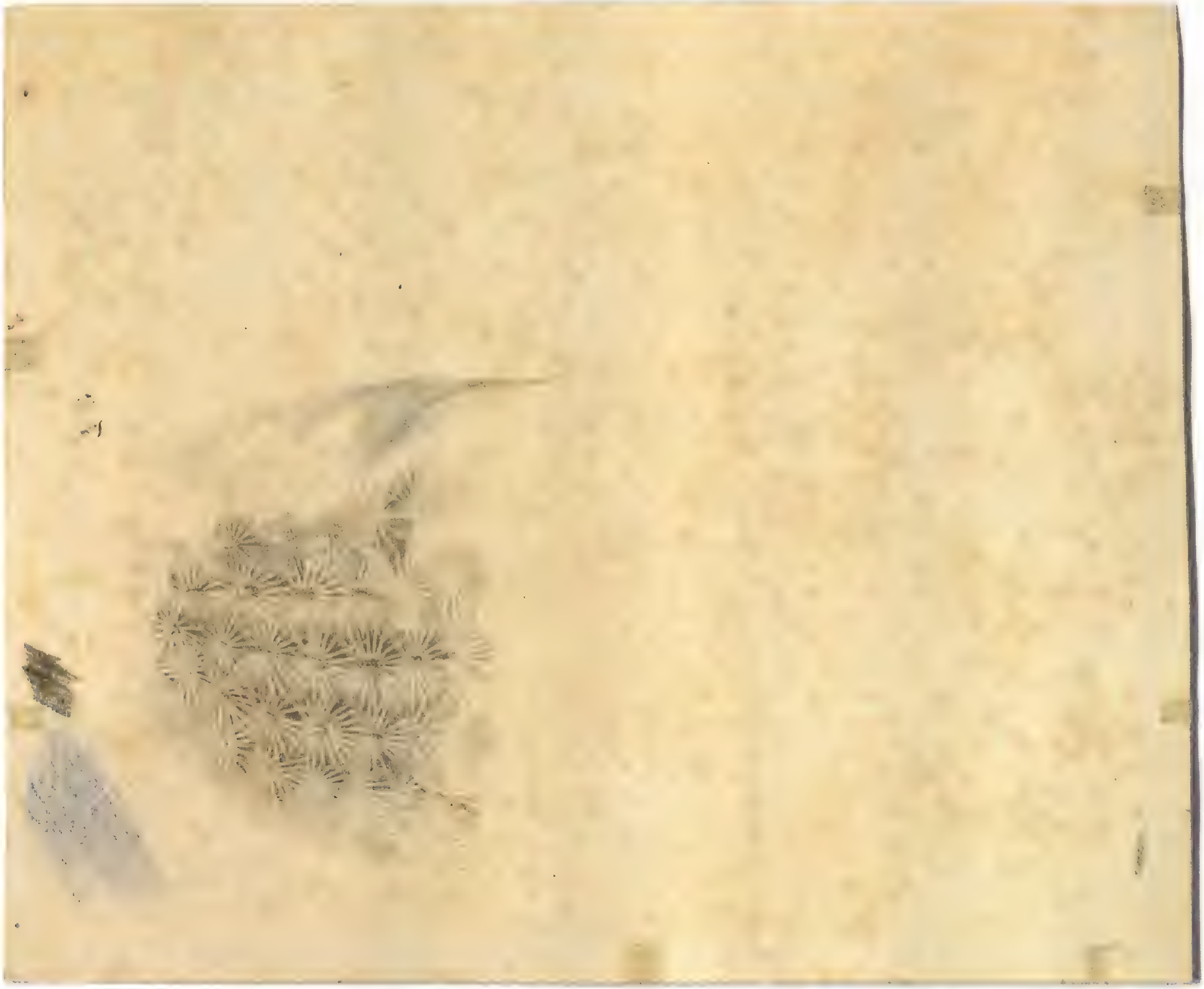

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Ph. Caseticense Dun 14 Juli 1858
mit Mr. Grieve

der Saberey als Sendung von
10 Tagen mit den Compliments
Prinz Regt von Wales

P. Purdie

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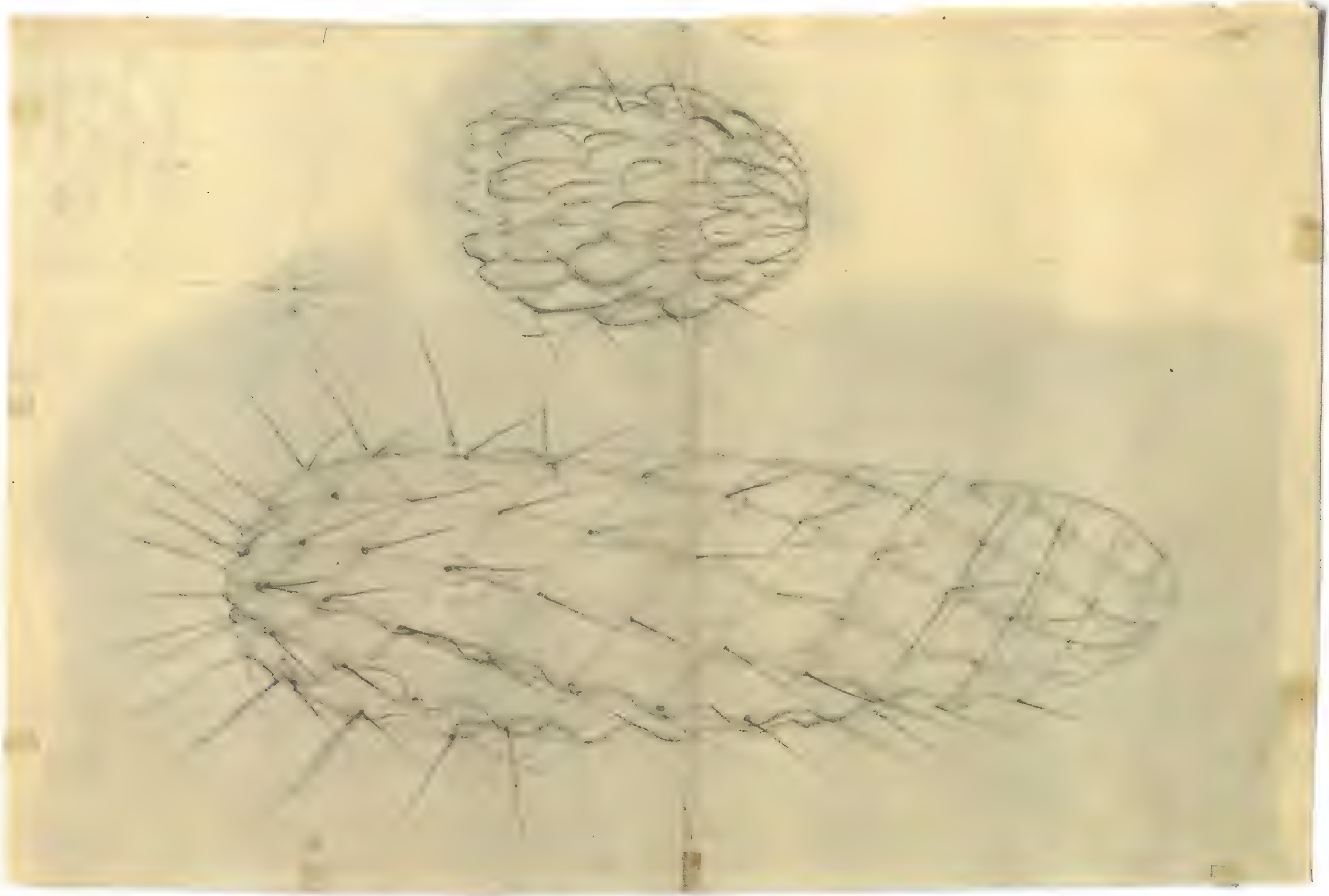

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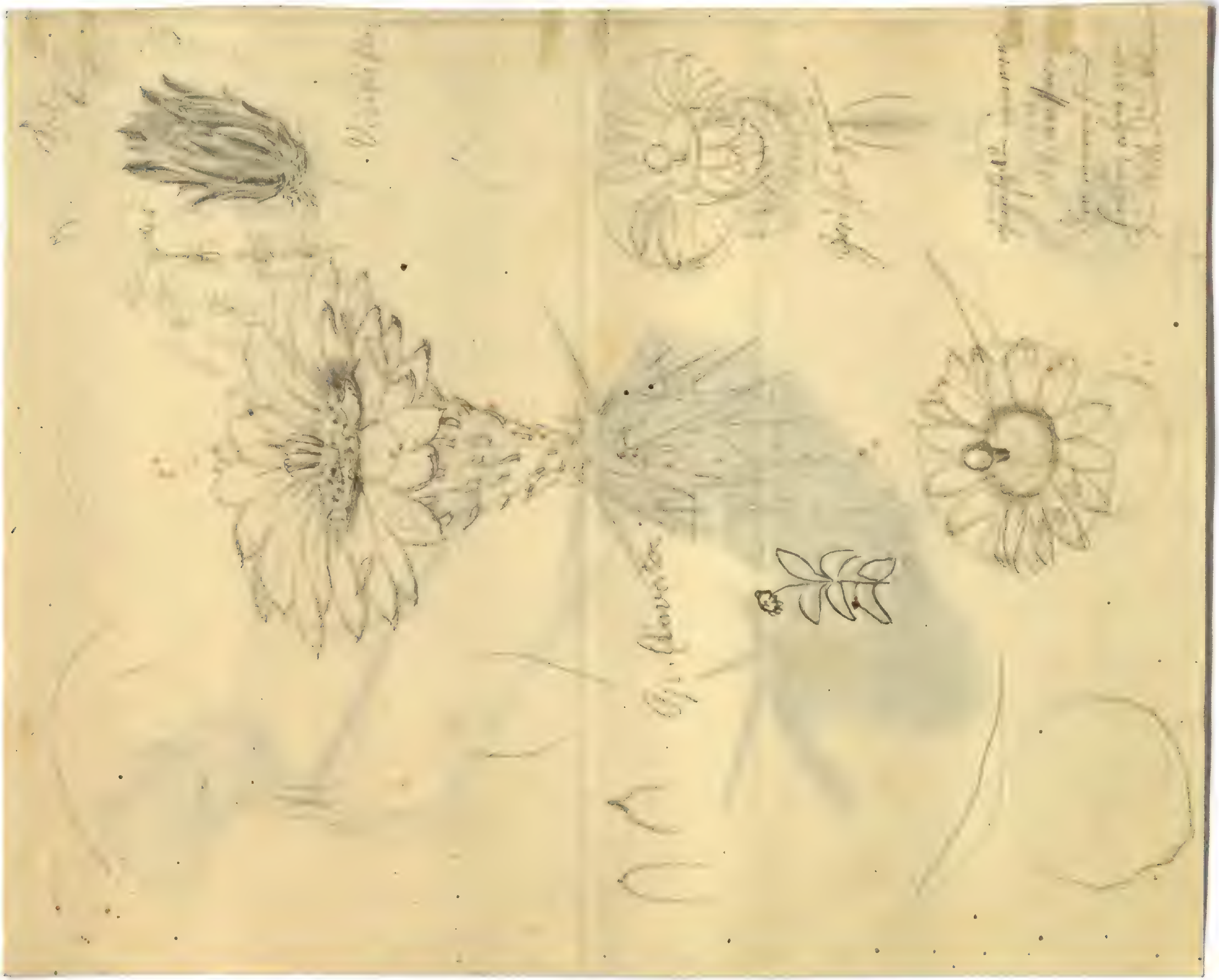

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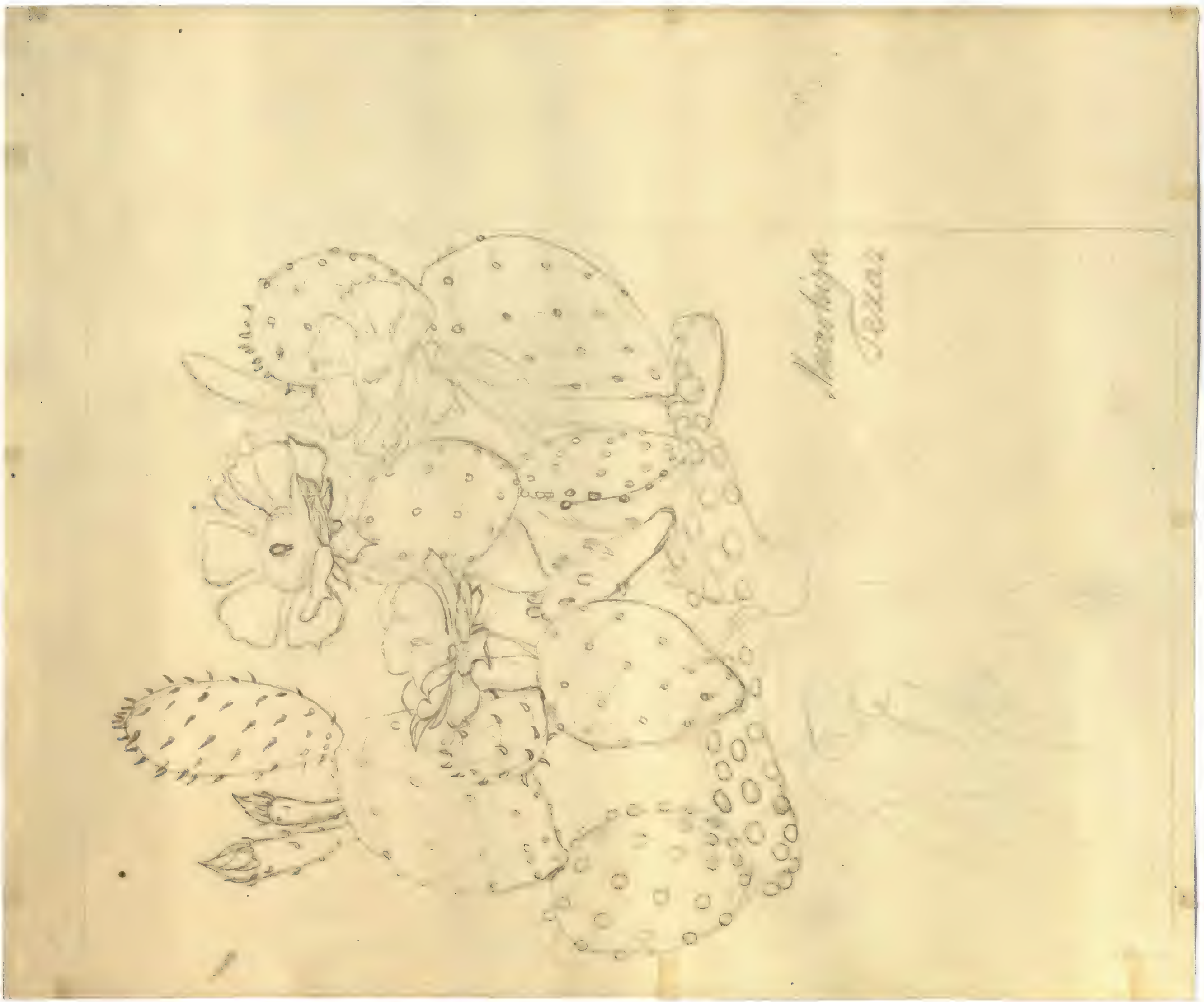

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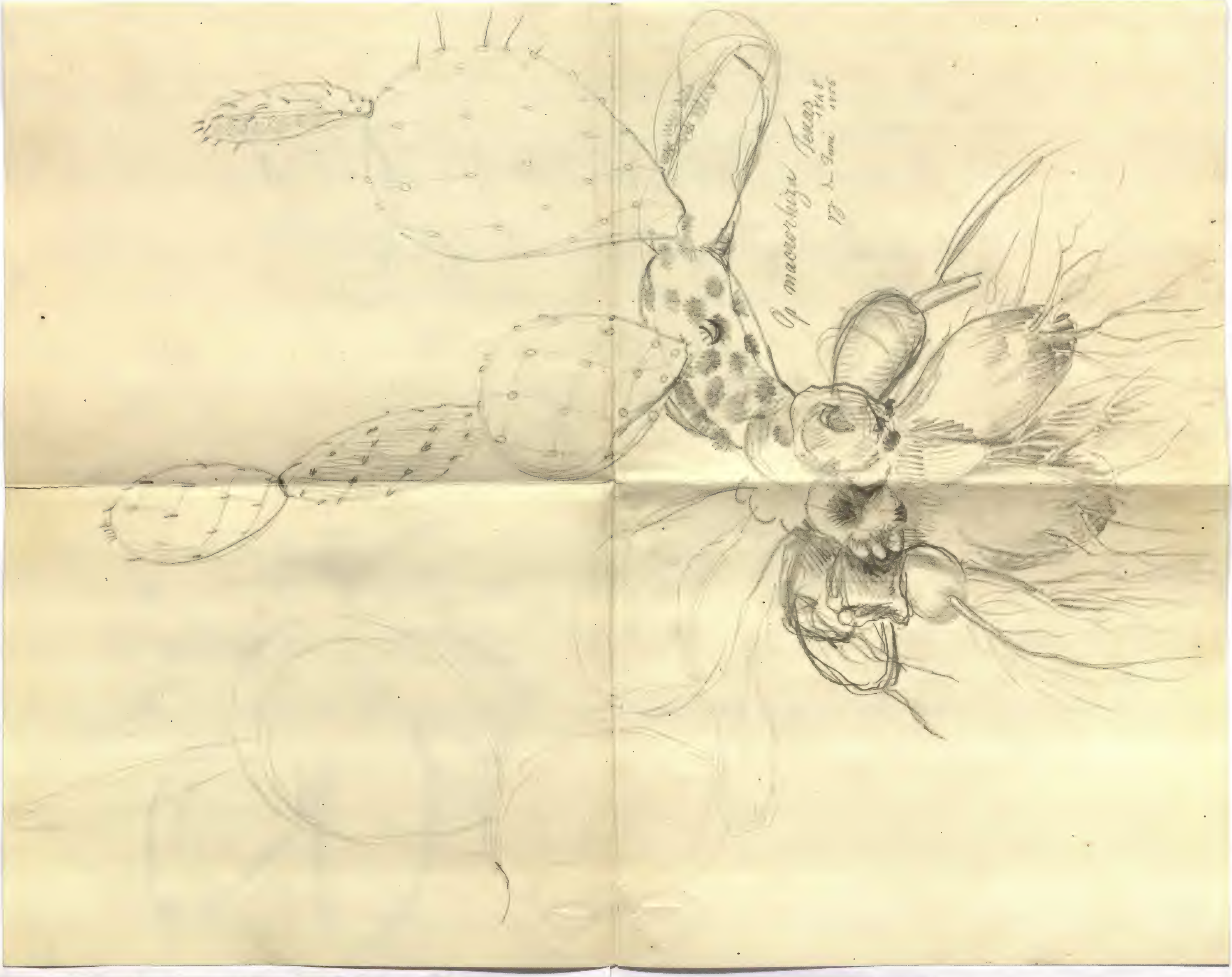

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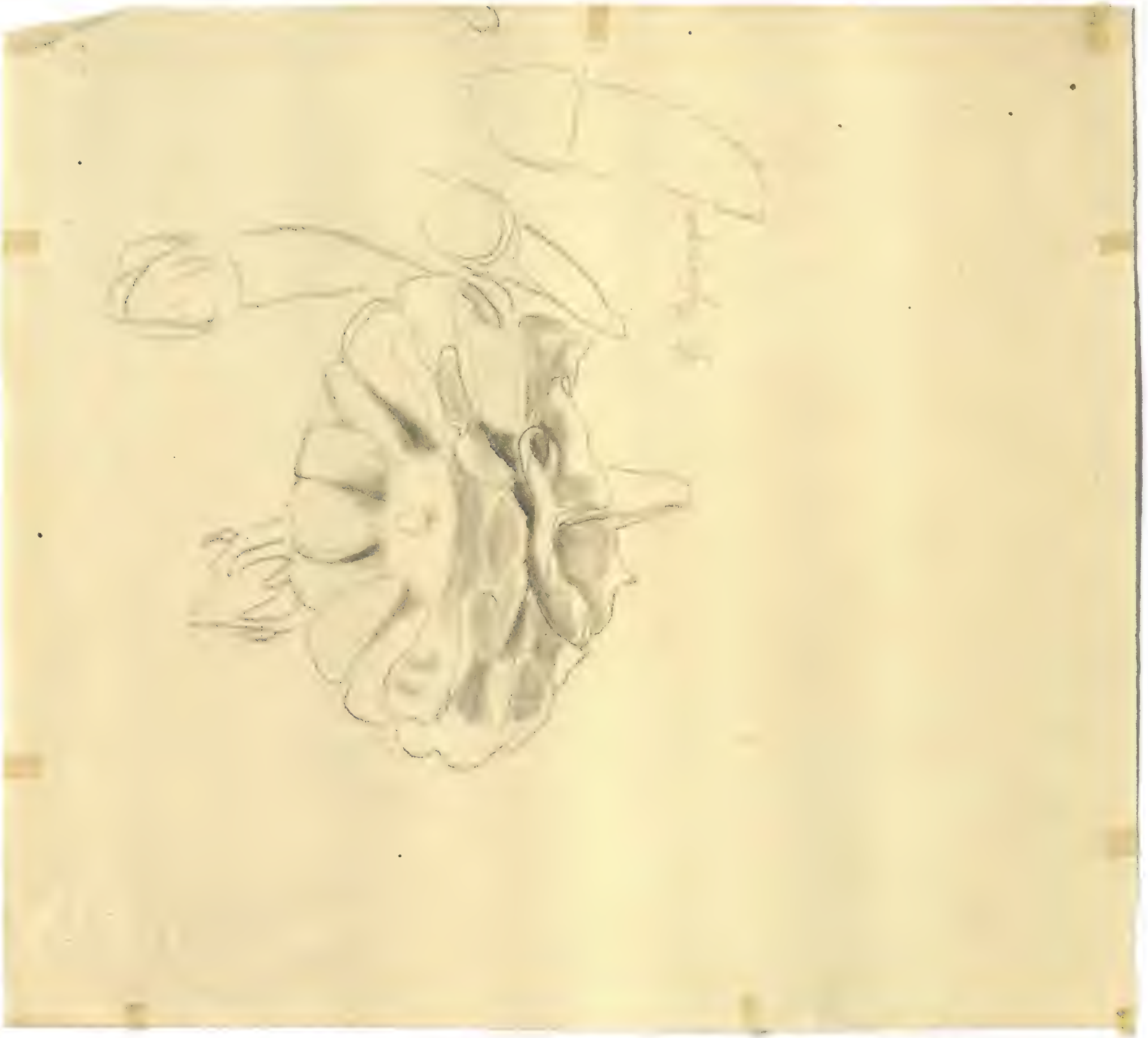

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cm 0 1 2 3 4 5 6 7 8 9 10
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Op. xanthii

Op. strigil
Plate 82

0 1 2 3 4 5 6 7 8 9 10
cm
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XVIII

ART
19-2007-84
Cotton
Plate 53

0 1 2 3 4 5 6 7 8 9 10
cm
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cm
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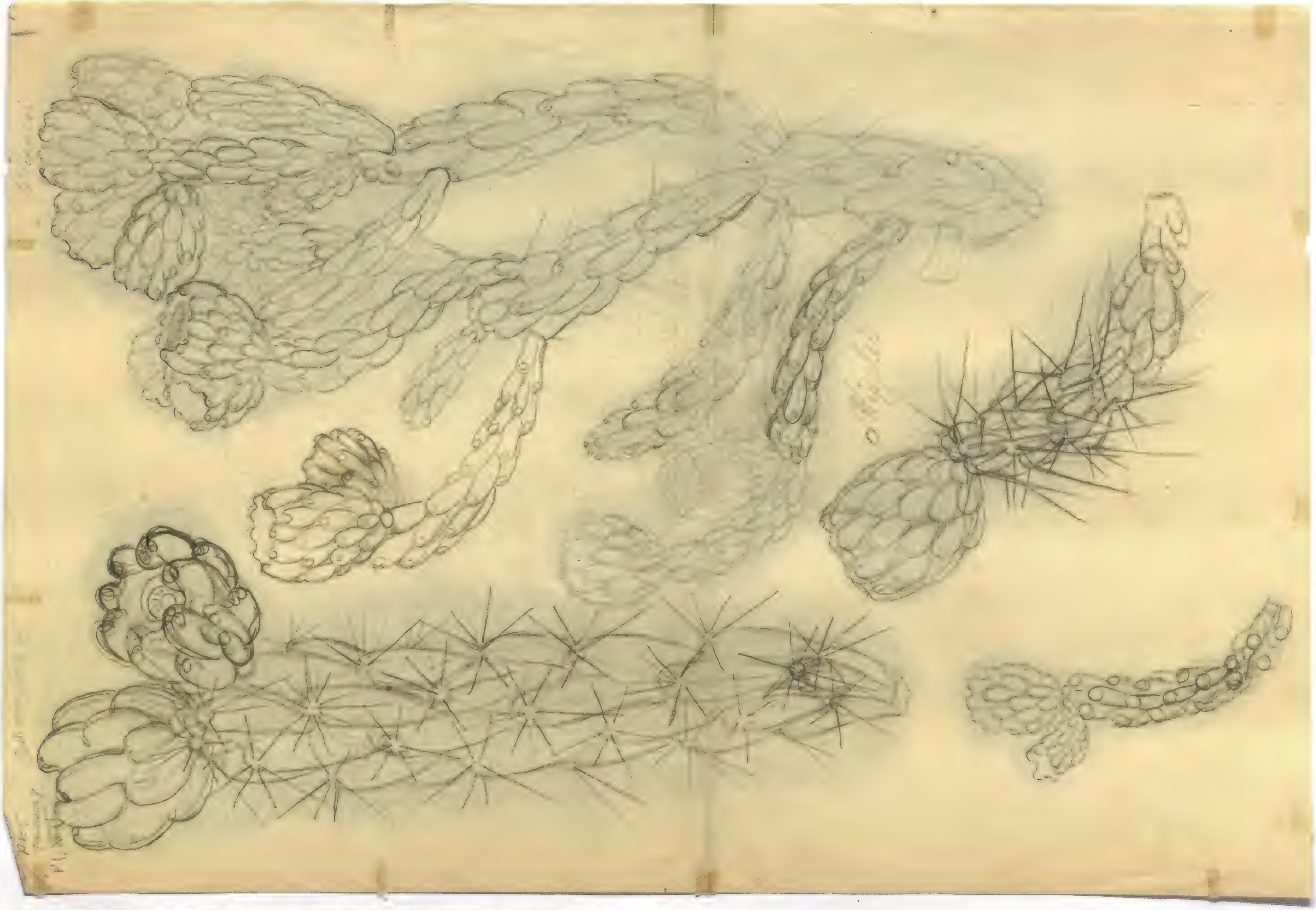

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Missouri Botanical Garden

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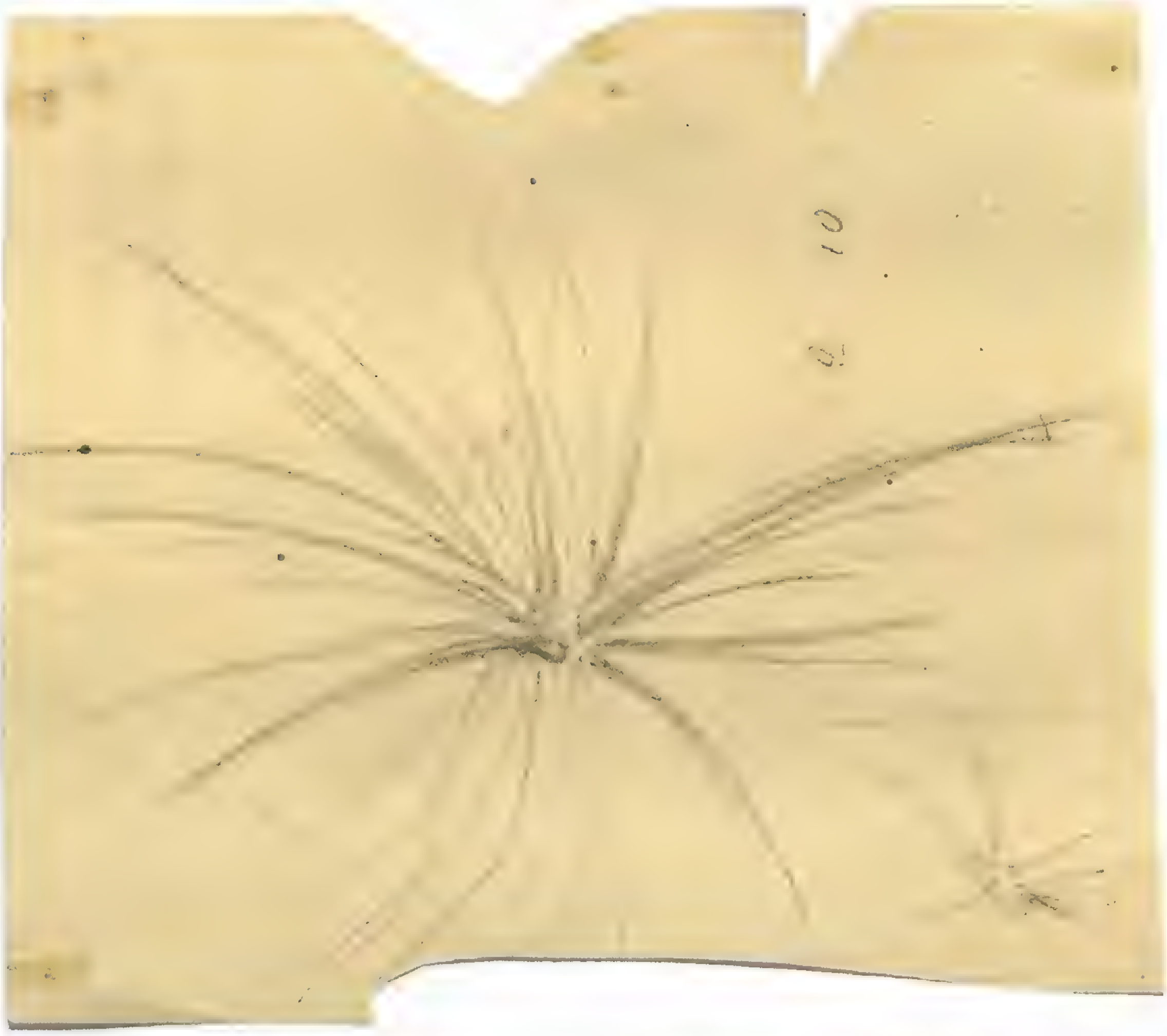

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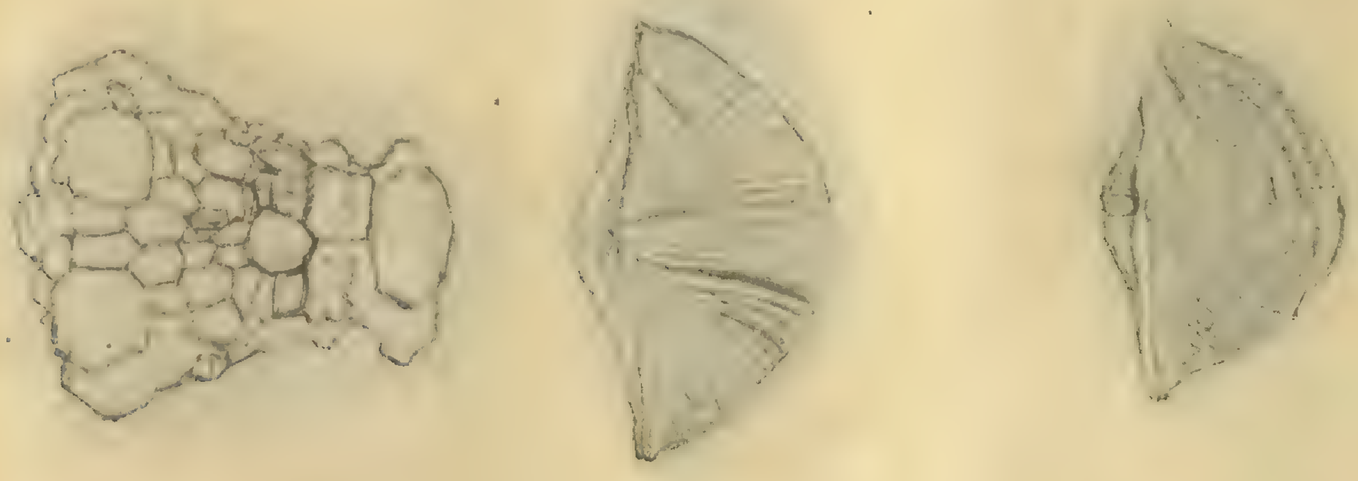

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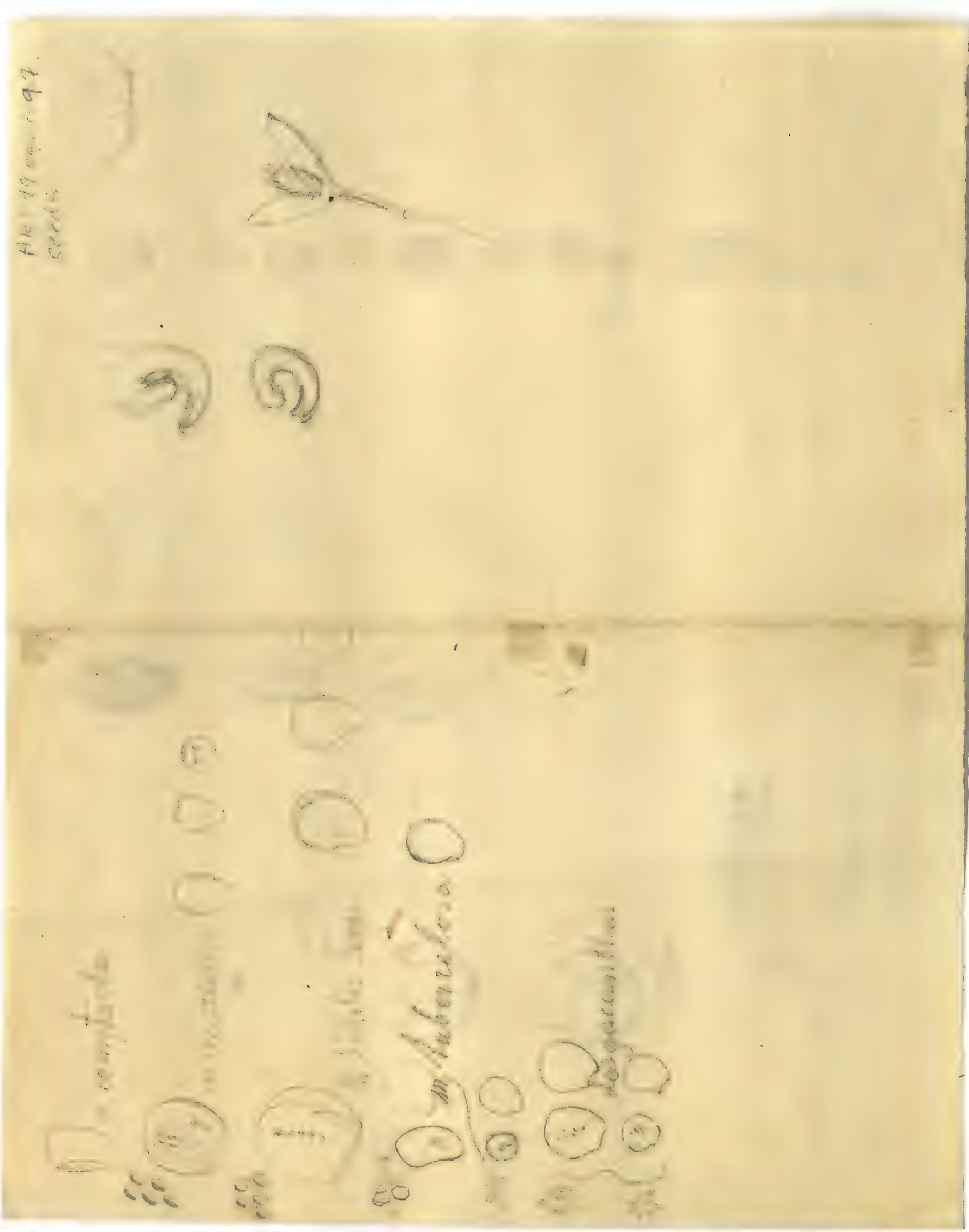

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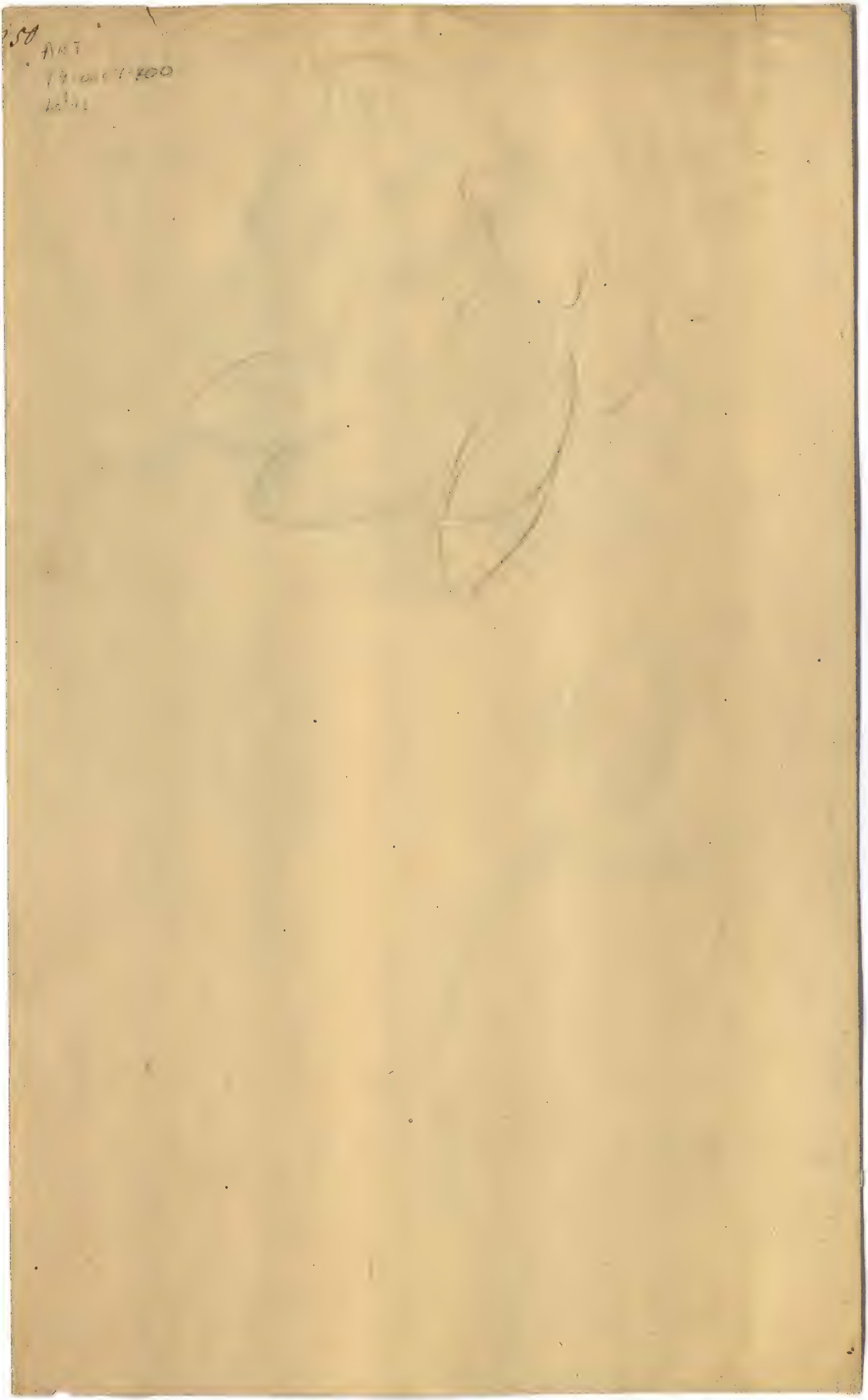

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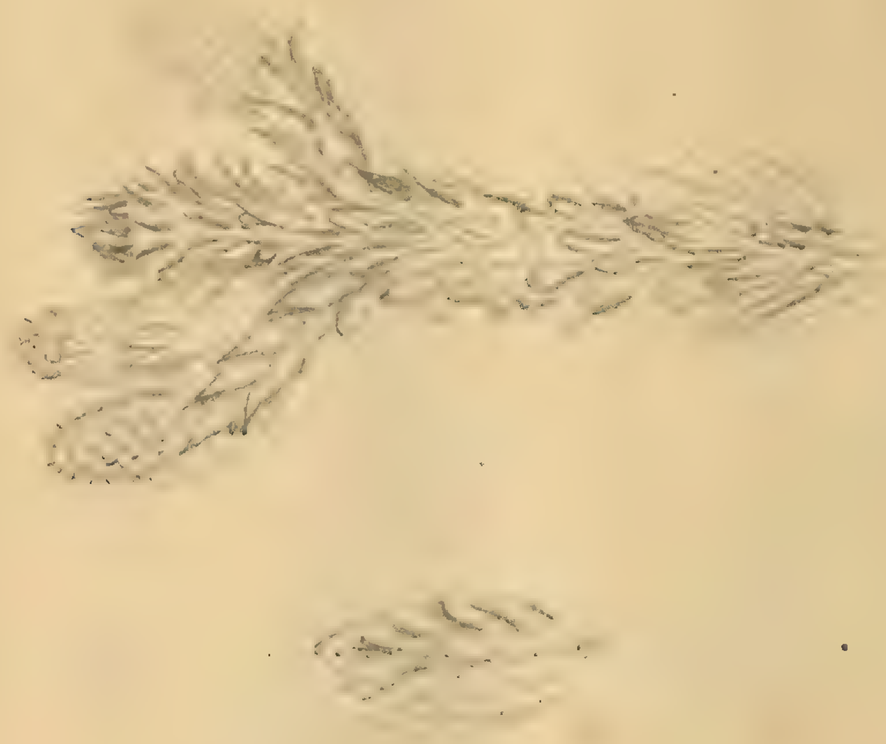

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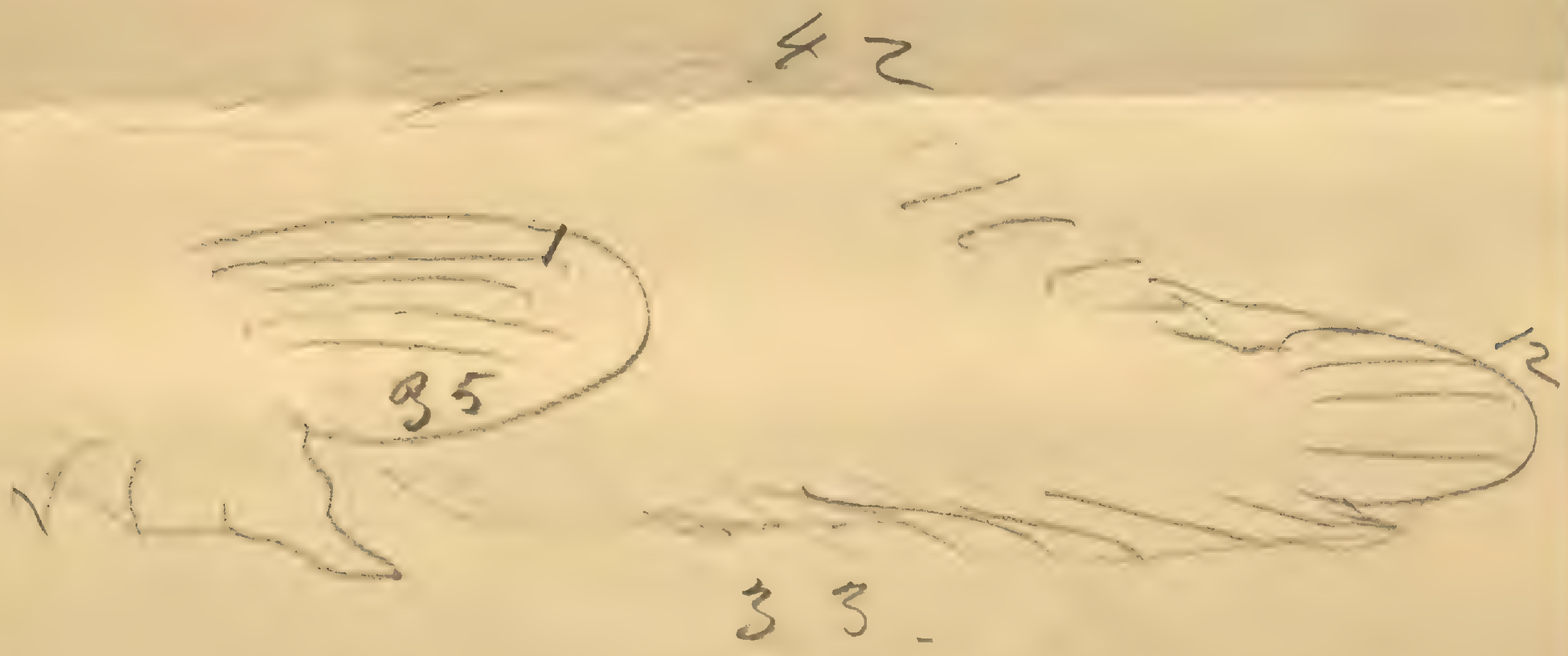
Back fin 42 but the front ones are not seen.

Under fin 34

Side fin 35

Tail fin 12



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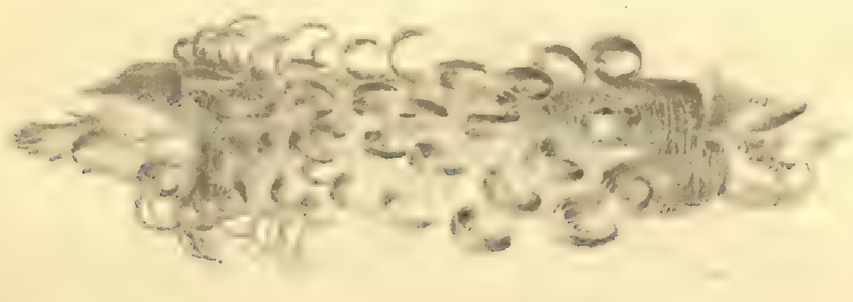

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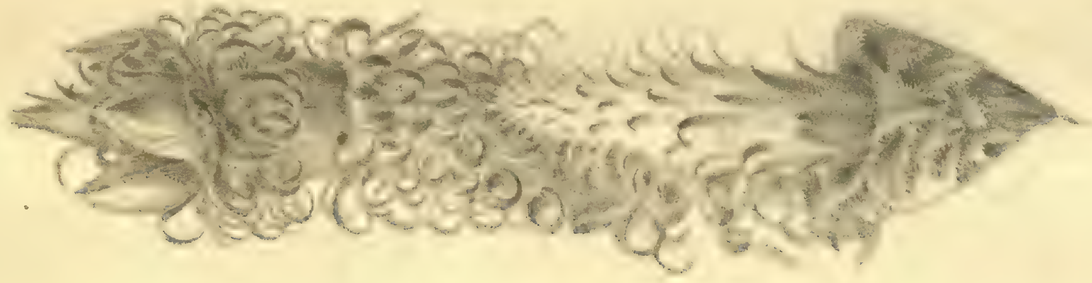

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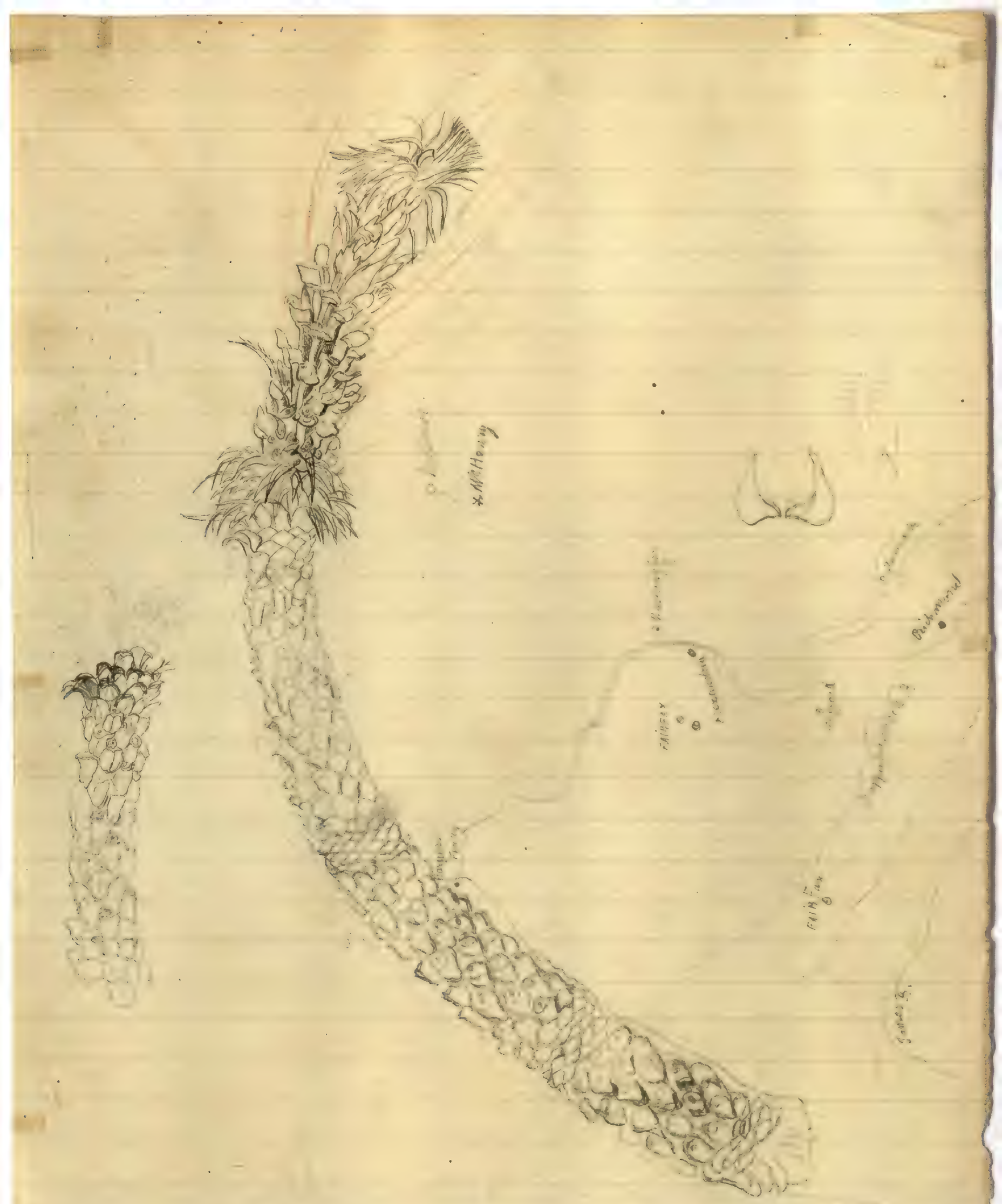

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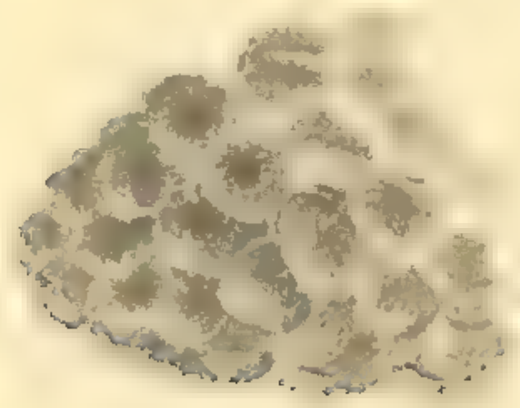

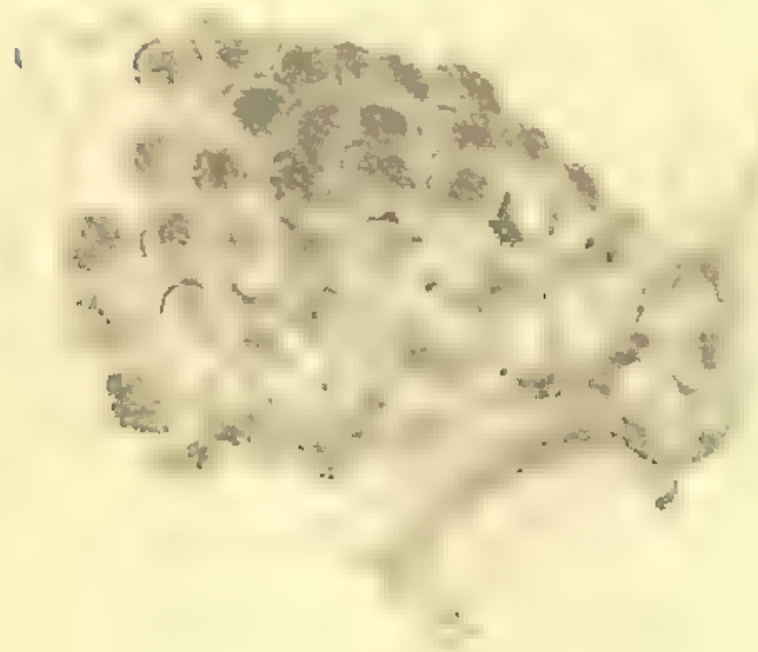

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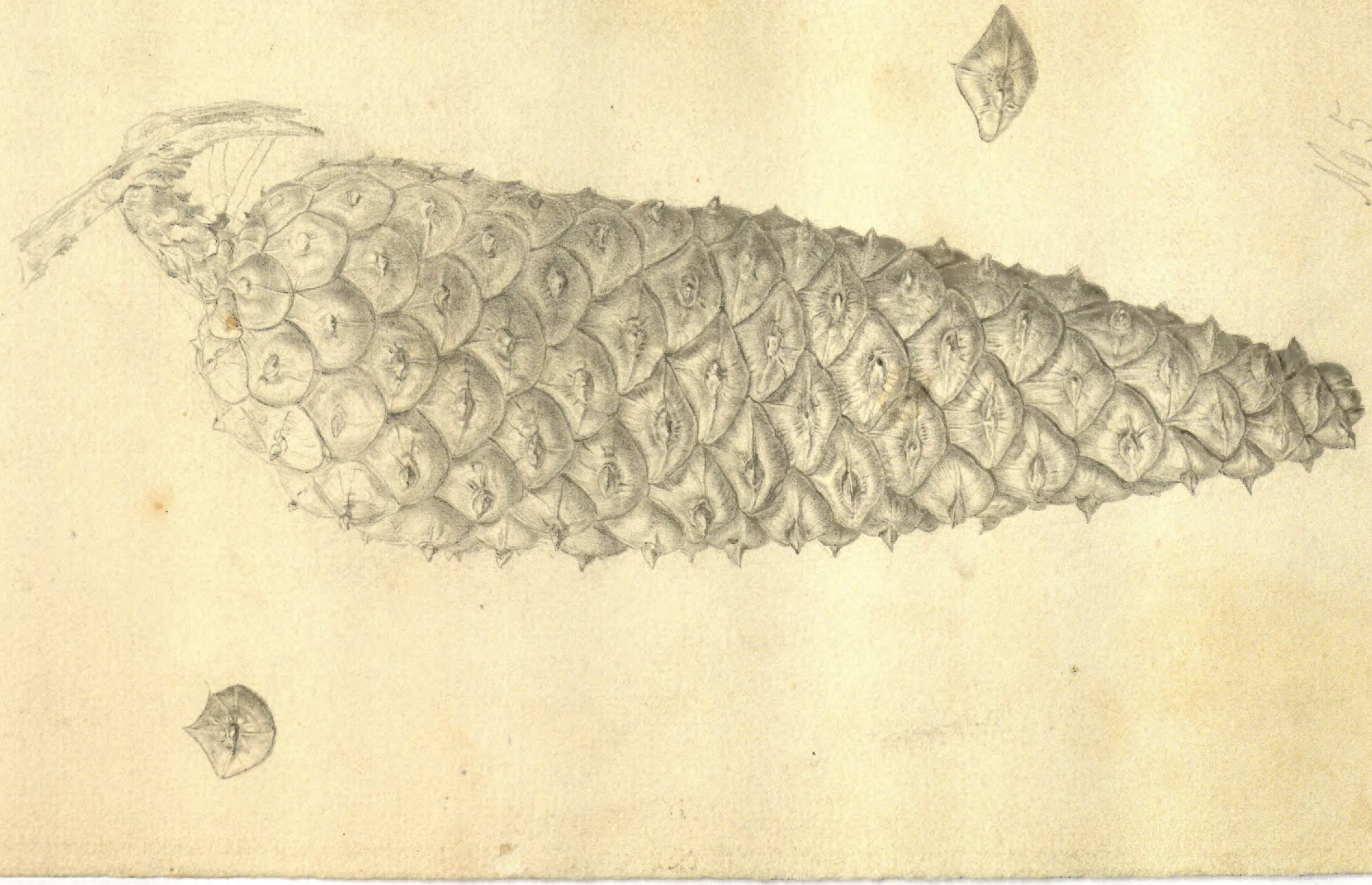

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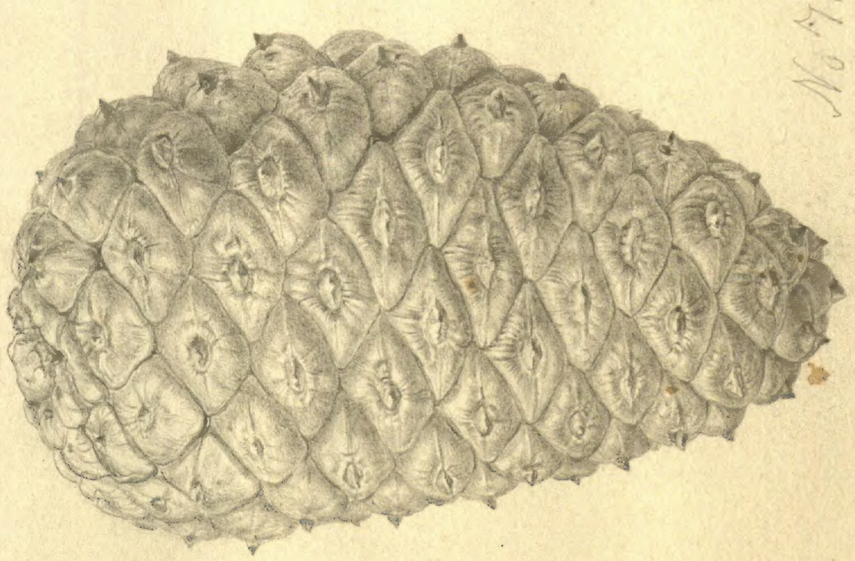

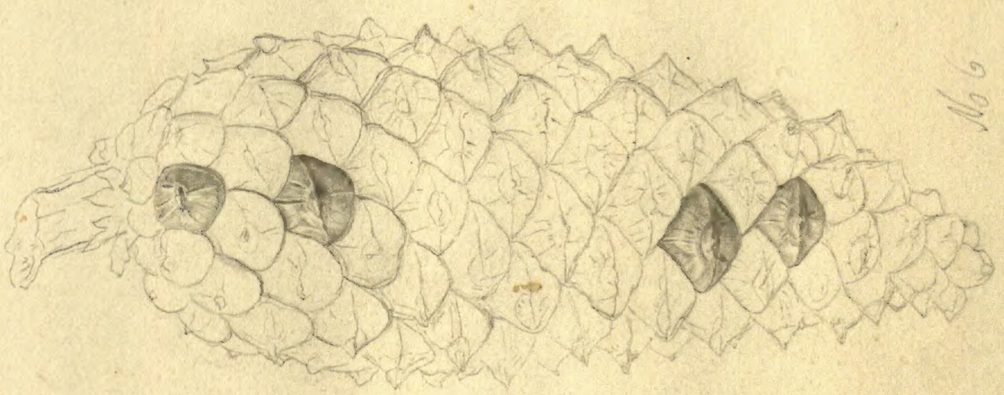

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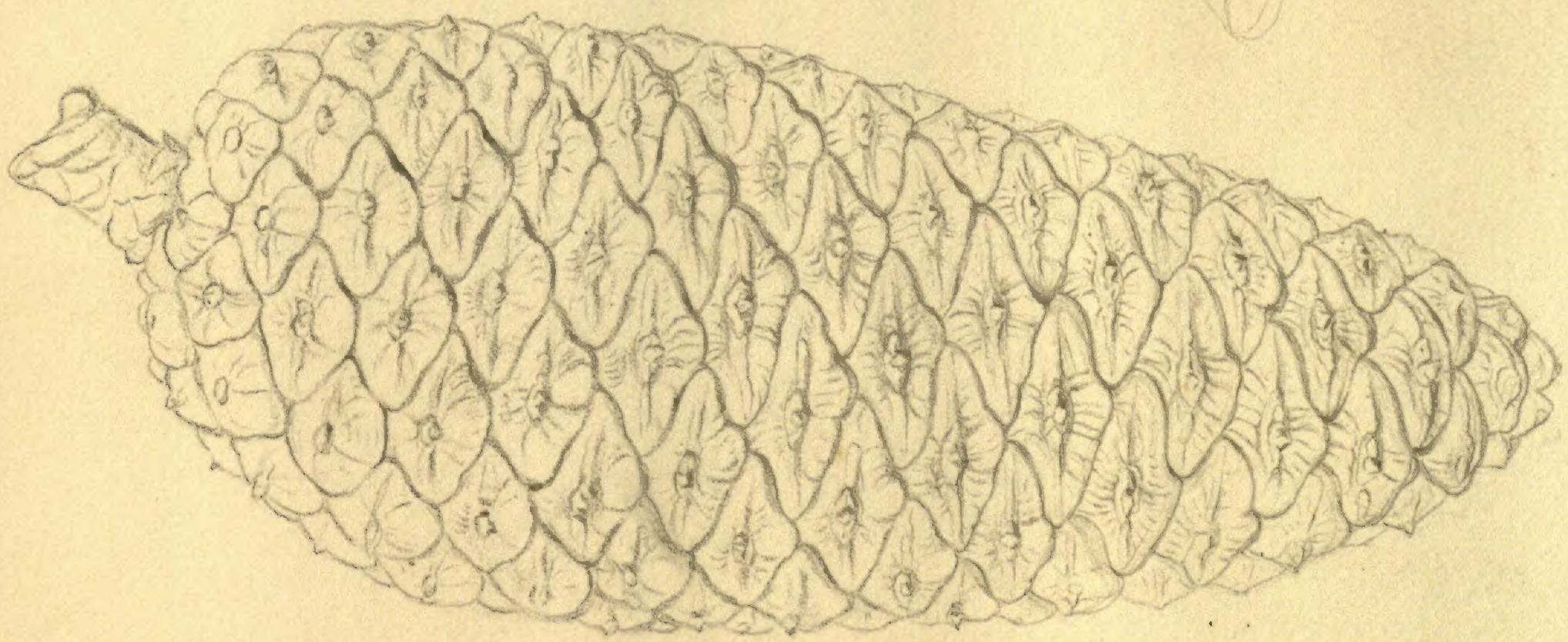

No 8.

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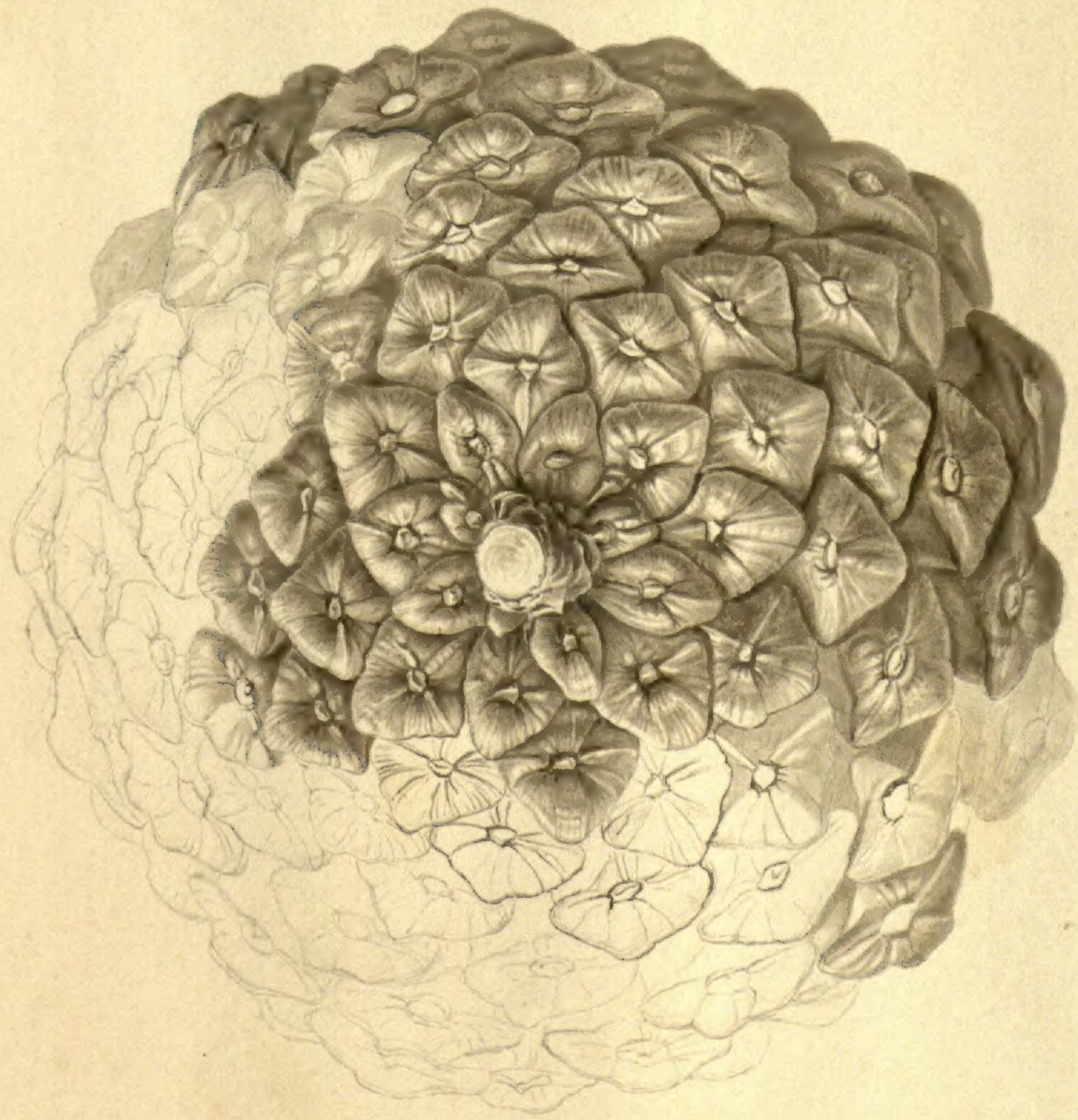

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